



# Smithsonian

*National Air and Space Museum*

## Videodisc Imagery Collection, Videodisc 6A Frame Captures

Melissa A. N. Keiser

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## Collection Overview

<b>Repository:</b>	National Air and Space Museum Archives
<b>Title:</b>	Videodisc Imagery Collection, Videodisc 6A Frame Captures
<b>Date:</b>	1989
<b>Identifier:</b>	NASM.XXXX.1000.4610
<b>Extent:</b>	2.13 Gigabytes (2,182 digital image files)
<b>Language:</b>	English .
<b>Summary:</b>	This collection reproduces a section of the first side (Side A) of <i>National Air and Space Museum Archival Videodisc 6</i> , a LaserDisc CAV format 12-inch (30 cm) optical disc published by the Smithsonian Institution in 1989, as individual videodisc frame captures. These digital images were created in 2003 by converting the NTSC video format output from an original copy of the videodisc to JPEG format still picture image files. NASM Archival Videodisc 6 reproduced National Aeronautics and Space Administration (NASA) photography of American lunar missions from 1964 to 1972, including Ranger, Surveyor, Lunar Orbiter, and Apollo missions. This small collection consists of a historical series assembled by the NASM Archives to provide background information on lunar exploration missions by the United States and the Soviet Union.

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## Administrative Information

### Acquisition Information

Generated 1989, NASM.XXXX.1000.4610

### Related Materials

Original archival materials photographed to produce this section of NASM Archival Videodisc 6, Side A, can be found in the related physical collection [Videodisc Imagery Collection, Videodisc 6A Contents, NASM.XXXX.1000.1610](#) .

### Processing Information

Arranged by staff of the NASM Archives, described and encoded by Melissa A. N. Keiser, 2021.

### Preferred Citation

Videodisc Imagery Collection, Videodisc 6A Frame Captures, Acc. NASM.XXXX.1000.4610, National Air and Space Museum, Smithsonian Institution.

### Restrictions

No restrictions on access

## Conditions Governing Use

Material is subject to Smithsonian Terms of Use. Should you wish to use NASM material in any medium, please submit an Application for Permission to Reproduce NASM Material, available at [Permissions Requests](#) .

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## Biographical / Historical

In 1982, faced with the twin challenges of providing rapid access to subject-oriented photography while still attempting to preserve the original prints, the Smithsonian National Air and Space Museum (NASM) initiated the NASM Archival Videodisc Program. This optical disc storage technology (LaserDisc) was first marketed to the public in the late 1970s as a means for marketing and distributing motion pictures, but the 12-inch constant angular velocity (CAV) format analogue videodiscs (similar in construction to later digital video discs or DVDs) could also be used to hold still pictures (approximately 50,000 still picture frames per side, or 100,000 images for a double-sided disc). Each frame was numbered, making it easy to access a specific image and "freeze" it for display on a television or video monitor.

NASM Archival Videodisc 6 reproduced National Aeronautics and Space Administration (NASA) photography of American lunar missions beginning with Ranger 7 in 1964 and ending with the flight of Apollo 17 in 1972, and including Ranger, Surveyor, Lunar Orbiter, and Apollo missions. Apollo imagery included 70 mm (color and black-and-white photographs covering astronaut activity on the moon, lunar features, and Earth imagery) and metric mapping photographs. This videodisc was unusual in that it featured a large number of text images interspersed with the photography in historical sections presenting chronologies of American and Soviet lunar missions, Apollo missions, and biographies of the Apollo astronauts.

All photographic prints or color transparencies were sequentially numbered with printed title pages inserted into the sequence (black text on white paper) before the materials were photographed onto 35mm film for transfer to videodisc. Each videodisc was accompanied by a printed finding aid consisting of folder-level subject lists noting the image frame number or numbers associated with each subject.

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## Scope and Contents

This section of the [Videodisc Imagery Collection, NASM.XXXX.1000](#) , includes ONLY those videodisc frames which correspond to NASM Archives holdings, namely VD-6A29244 through VD-6A31425. This section is a historical series assembled by the NASM Archives in 1989 to provide background information on lunar exploration missions by the United States and the Soviet Union, drawing on photographs then held in the Space History Series of the NASM Technical Reference Files, with additional photography obtained from the National Aeronautics and Space Administration (NASA) Headquarters Public Affairs office and added to the collection. Museum staff added pages of text to create chronologies of American and Soviet lunar missions, Apollo missions, and biographies of the Apollo astronauts. Topics covered by the photography include launch vehicles (rockets), spacecraft, operations, personnel, and equipment such as the Apollo Lunar Roving Vehicles and the Apollo Mobile Quarantine Facility. NASA mission photography used to create all other sections of NASM Archival Videodisc 6 was returned to NASA at the completion of videodisc production and is not available from NASM Archives.

The "videodisc frame capture" images reproduced in this section are small 100 ppi RGB JPEG image files, 624 x 480 pixels each, created in February 2003 by NASM Archives as still video frame captures of the NTSC video format output from an original copy of NASM Archival Videodisc 6. Each videodisc frame capture displays a black-edged white number in the upper left quadrant; the first two digits (00) are the videodisc chapter (not used on NASM videodiscs), the second set of five digits are the videodisc frame number. These numbers are an artifact produced by the videodisc player and do not appear on the original archival materials.

## Arrangement

The videodisc information is presented as it was originally published in 1989, in videodisc frame number order. A title page frame begins each videodisc folder. The image filenames consist of a prefix identifying the file as a videodisc frame capture (VD) followed by the videodisc number and side (6A) and the videodisc frame number (29244 through 31425).

The original printed paper finding aid provided with the published videodiscs was a listing of subject heading frame ranges (Files) presented in directory format. To make the collection easier to navigate in an online environment, this digital finding aid adds additional hierarchical levels (Series and Sub-Series) to provide intermediate folder groupings. Images in the Lunar Exploration series are grouped by country and mission, with missions arranged chronologically. Images in the Apollo Astronaut series are arranged alphabetically by name (last name first) with a section of group photographs appearing at the end of the series.

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## Names and Subject Terms

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

Subjects:

- Apollo Project
- Astronautics
- Astronauts
- Lunar excursion module
- Ranger Lunar Probes
- Space vehicles

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## Container Listing

### Lunar Exploration

VD-6A29243B: [Ranger 1](#)

VD-6A29246: [Ranger 2](#)

VD-6A29252: [Ranger 3](#)

VD-6A29257: [Ranger 4](#)

VD-6A29273: [Ranger 5](#)

VD-6A29286: [Ranger 6 \(A\)](#)

VD-6A29307: [Ranger 7 \(B\)](#)

VD-6A29319: [Ranger 8 \(C\)](#)

VD-6A29326: [Ranger 9 \(D\)](#)

VD-6A29328: [Surveyor 1 \(A, 30 May 66\)](#)

VD-6A29387: [Surveyor 2 \(B, 20 Sep 66\)](#)

VD-6A29393: [Surveyor 3 \(C, 16 Apr 67\)](#)

VD-6A29408: [Surveyor 4 \(D, 14 Jul 67\)](#)

VD-6A29417: [Surveyor 5 \(E, 8 Sep 67\)](#)

VD-6A29426: [Surveyor 6 \(F, 6 Nov 67\)](#)

VD-6A29432: [Surveyor 7 \(G, 6 Jan 68\)](#)

VD-6A29442: [Lunar Orbiter 1 \(A\)](#)

VD-6A29452: [Lunar Orbiter 2 \(B\)](#)

VD-6A29457: [Lunar Orbiter 3 \(C\)](#)

VD-6A29460: [Lunar Orbiter 4 \(D\)](#)

VD-6A29462: [Lunar Orbiter 5 \(E\)](#)

VD-6A29466: [Apollo 4 Flight](#)

VD-6A29490: [Apollo 5 Flight](#)

VD-6A29507: [Apollo 6 Flight](#)

VD-6A29511: [Apollo 7 Flight](#)

VD-6A29534: [Apollo 8 Flight, Crew](#)

VD-6A29574: [Apollo 9 Flight, Crew](#)

VD-6A29640: [Apollo 10 Flight, Crew](#)

VD-6A29730: [Apollo 11 Flight, Crew](#)

VD-6A29918: [Apollo 12 Flight, Crew](#)

VD-6A29983: [Apollo 13 Flight, Crew](#)

VD-6A30040: [Apollo 13 Flight, Incident Investigation Reports](#)

VD-6A30143: [Apollo 14 Flight, Crew](#)

VD-6A30193: [Apollo 15 Flight, Crew](#)

VD-6A30228: [Apollo 16 Flight, Crew](#)

VD-6A30249: [Apollo 17 Flight, Crew](#)

VD-6A30256: [Saturn I SA-1 \(27 Oct 61\) Launch Vehicle \(Block I\)](#)

VD-6A30280: [Saturn I SA-2 \(25 Apr 62\) Launch Vehicle \(Block I\)](#)

VD-6A30291: [Saturn I SA-3 \(16 Nov 62\) Launch Vehicle \(Block I\)](#)

VD-6A30307: [Saturn I SA-4 \(28 Mar 63\) Launch Vehicle \(Block I\)](#)

VD-6A30343: [Saturn I SA-5 \(29 Jan 64\) Launch Vehicle \(Block II\)](#)

VD-6A30388: [Saturn I SA-6 \(28 May 64\) Launch Vehicle \(Block II\)](#)

VD-6A30418: [Saturn I SA-7 \(18 Sep 64\) Launch Vehicle \(Block II\)](#)

VD-6A30426: [Saturn I SA-8 \(25 May 65\) Launch Vehicle \(Block II\)](#)

VD-6A30428: [Saturn I SA-9 \(16 Feb 65\) Launch Vehicle \(Block II\)](#)

VD-6A30433: [Saturn I SA-10 \(30 Jul 65\) Launch Vehicle \(Block II\)](#)

VD-6A30435: [Saturn IB AS-201 \(26 Feb 66\) Launch Vehicle](#)

VD-6A30456: [Saturn IB Launch Vehicle, 1966 \(1 of 2\)](#)

VD-6A30481: [Saturn IB Launch Vehicle, 1966 \(2 of 2\)](#)

VD-6A30486: [Saturn IB AS-205 \(11 Oct 68\) Launch Vehicle \(See also: Apollo 7\)](#)

VD-6A30488: [Saturn IB AS-204 \(22 Jan 68\) Launch Vehicle](#)

VD-6A30491: [Saturn S-4B Stage \(Saturn 5\), Saturn S-1C Stage](#)

VD-6A30506: [Saturn S-4B Stage \(Saturn 5\), Saturn S-2 Stage](#)

VD-6A30516: [Saturn S-4B Stage \(Saturn 5\), Saturn S-4B Stage \(Saturn 5\)](#)

VD-6A30522: [Apollo Command Modules](#)

VD-6A30560: [Apollo Service Modules](#)

VD-6A30568: [Apollo Command and Service Modules](#)

VD-6A30580: [Apollo Lunar Module \(LEM, LM\)](#)

VD-6A30653: [Apollo Command Module Mated to Apollo Lunar Module \(LEM, LM\)](#)

VD-6A30660: [Apollo Lunar Roving Vehicle \(LRV\)](#)

VD-6A30685: [Apollo Lunar Roving Vehicle \(LRV\), CEPS Collection](#)

Notes: Photographs reproduced on videodisc as VD-6A30686 through VD-6A30836 as "LUNAR ROVING VEHICLE (CEPS COLLECTION)" were not found when collection was reboxed in June 2011. It is assumed that the original print photographs were returned to the NASM Center for Earth and Planetary Studies (CEPS) after being shot for videodisc.

VD-6A30789: [Apollo Lunar Roving Vehicle \(LRV\), Testing, Installation, and Operation on Moon](#)

VD-6A30837: [Lunar Surface Vehicles, Concepts](#)

VD-6A30846: [Apollo Lunar Landing Research Vehicle \(LLRV\)](#)



VD-6A30857: [Apollo Mobile Quarantine Facility \(MQF\)](#)

VD-6A30864: [Soviet Union \(Russia\), Luna 1 Probe \(Lunik 1, Mechta, "Dream"\)](#)

VD-6A30869: [Soviet Union \(Russia\), Luna 2 Probe \(Lunik 2\)](#)

VD-6A30875: [Soviet Union \(Russia\), Luna 3 Probe \(Lunik 3\)](#)

VD-6A30881: [Soviet Union \(Russia\), Luna 9 Probe \(Lunik 9\)](#)

VD-6A30892: [Soviet Union \(Russia\), Luna 10 Probe \(Lunik 10\)](#)

VD-6A30895: [Soviet Union \(Russia\), Luna 12 Probe \(Lunik 12\)](#)

VD-6A30897: [Soviet Union \(Russia\), Luna 13 Probe \(Lunik 13\)](#)

VD-6A30899: [Soviet Union \(Russia\), Luna 16 Probe \(Lunik 16\)](#)

VD-6A30906: [Soviet Union \(Russia\), Luna 20 Probe \(Lunik 20\)](#)

VD-6A30909: [Soviet Union \(Russia\), Lunokhod \(Moonwalker\) Roving Vehicle](#)

VD-6A30912: [Soviet Union \(Russia\), Zond Space Probes](#)

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## Lunar Missions Chronology

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## Apollo Program Mission Data

VD-6A30926: [Unmanned Apollo Missions](#)

VD-6A30952: [Manned Apollo Missions](#)

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## Apollo Astronauts, Biographical Data

VD-6A30983: [Aldrin, Edwin "Buzz" Eugene, Jr.](#)

VD-6A30994: [Anders, William Alison](#)

VD-6A31002: [Armstrong, Neil Alden](#)

VD-6A31015: [Bean, Alan Lavern](#)

VD-6A31025: [Borman, Frank Frederick, II](#)

VD-6A31037: [Cernan, Eugene Andrew "Gene"](#)

VD-6A31051: [Chaffee, Roger Bruce](#)

VD-6A31061: [Collins, Michael](#)

VD-6A31074: [Conrad, Charles "Pete", Jr.](#)

VD-6A31089: [Cunningham, Ronnie Walter](#)

VD-6A31098: [Duke, Charles Moss, Jr](#)

VD-6A31107: [Eisele, Donn Fulton](#)

VD-6A31116: [Evans, Ronald Ellwin](#)

VD-6A31125: [Gordon, Richard Francis "Dick," Jr.](#)

VD-6A31134: [Grissom, Virgil Ivan "Gus"](#)

VD-6A31152: [Haise, Fred Wallace, Jr](#)

VD-6A31165: [Irwin, James Benson](#)

VD-6A31174: [Lovell, James Arthur "Jim," Jr.](#)

VD-6A31189: [Mattingly, Thomas Kenneth "Ken," II](#)

VD-6A31201: [McDivitt, James Alton "Jim"](#)

VD-6A31217: [Mitchell, Edgar Dean](#)

VD-6A31227: [Roosa, Stuart Allen](#)

VD-6A31236: [Schirra, Walter Marty, Jr. "Wally"](#)

VD-6A31251: [Schmitt, Harrison Hagan "Jack"](#)

VD-6A31261: [Schweickart, Russell Louis "Rusty"](#)

VD-6A31273: [Scott, David Randolph "Dave"](#)

VD-6A31286: [Shepard, Alan Bartlett, Jr.](#)

VD-6A31304: [Stafford, Thomas Patten "Tom"](#)

VD-6A31319: [Swigert, John Leonard, Jr](#)

VD-6A31330: [White, Edward Higgins, II](#)

VD-6A31342: [Worden, Alfred Merrill "Al"](#)

VD-6A31351: [Young, John Watts](#)

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## Apollo Astronauts, Group Portraits

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