



Smithsonian

National Air and Space Museum

Space Shuttle Discovery (OV-103) Datapack

2017

National Air and Space Museum Archives
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Collection Overview

Repository:	National Air and Space Museum Archives
Title:	Space Shuttle Discovery (OV-103) Datapack
Date:	(bulk 2011)
Identifier:	NASM.2017.0041
Creator:	United States. National Aeronautics and Space Administration
Extent:	1 Cubic foot ((1 box))
Language:	English .

Administrative Information

Acquisition Information

NASA, Gift, 2012, but transferred to Archives from Space History in 2017

Preferred Citation

Space Shuttle Discovery (OV-103) Datapack, Accession 2017-0041, National Air and Space Museum, Smithsonian Institution.

Restrictions

No restrictions on access.

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Biographical / Historical

Discovery was the third Space Shuttle orbiter to fly in space. It entered service in 1984 and retired from spaceflight as the oldest and most accomplished orbiter, the champion of the shuttle fleet. Discovery flew on 39 Earth-orbital missions, spent a total of 365 days in space, and traveled almost 240 million kilometers (150 million miles)--more than the other orbiters. It shuttled 184 men and women into space and back, many of whom flew more than once, for a record-setting total crew count of 251. Because Discovery flew every kind of mission the Space Shuttle was meant to fly, it embodies well the 30-year history of U.S. human spaceflight from 1981 to 2011. Named for renowned sailing ships of exploration, Discovery is preserved as intact as possible as it last flew in 2011 on the 133rd Space Shuttle mission. NASA transferred Discovery to the Smithsonian in April 2012 after a delivery flight over the nation's capital.

Scope and Contents

This collection consists of four volumes of the Space Shuttle Discovery (OV-103) Datapack. Volume I was prepared by The Boeing Company and contains data divided into the following sections: Introduction; Space Shuttle System Overview; Shuttle Program Flight / Mission Numbering Systems; Space Shuttle Program Milestone; Space Shuttle Elements' Initial Space Shuttle System Requirements; Major Program Sites; Kennedy Space Center; Orbiter Vehicle Structural Components; Dimensions and Weights; Orbiter Vehicle Features; Vehicle Coordinate System; Orbiter Vehicle Systems Descriptions; Mission Profiles; Post Program Hazardous Material Safing; Orbiter Vehicle Access; Space Shuttle and Orbiter Vehicle Documentation; Orbiter Vehicle History; STS-133 Last Flight of OV-103 Discovery; and Engineering Drawings. Volume II contains the Space Shuttle Program Requirements Control Board Change Requests and Presentations, including Space Shuttle Program Change Requests and Presentations; End State Flow Review Freeze Point; Delta End State Requirements; Line Replaceable Unit; Display Site Requirements; Transition and Retirement Configurations; Final Configuration Requirements Mission Equipment - Cargo Support Launch Site Installations; Crew Compartment Confirmation Drawings; and Orbiter Configuration Verification Report. Volume III contains information on the Space Shuttle Closeout Requirements, including: Orbiter End State Requirements; Space Shuttle End State Subsystem Requirements; and the Orbiter Fleet Safing Document. Volume IV contains the Flight Requirements Document for STS-133, the OV-103 Middeck Locker Layout Drawings and General History, including: Composite Schedule History; Space Shuttle Program Manifest; Management Integration Flight History; and Space Shuttle Missions Summary (OV103 flights only).

Names and Subject Terms

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

Subjects:

- Astronautics
- Manned space flight
- Space Shuttles, Discovery (OV-103)

Types of Materials:

- Reports

Names:

- Space Shuttle Program (U.S.)