



# **20th Century NASA Space History: Shuttle / Mir Phase 1 Program Joint Report - Space Shuttle Integration with Russian Mir Space Station, Cargo Delivery, Joint Operations, Safety, Crew Training**

*National Aeronautics and Space Administration (NASA), World Spaceflight News*

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This official NASA document provides a fascinating detailed history of the Shuttle/Mir Phase 1 program, intended as a top-level joint reference document that contains information of interest to both the United States and Russia.

Contents: How the Phase 1 Program Started \* Objectives and Working Group Structure \* Program Description \* Description of the Mir-Shuttle and Mir-NASA Programs \* The Mir Space Station's Flight Program in 1994 - 98 \* Phase 1 Joint Mission Information \* Shuttle Mission Preparation Joint Milestones \* Shuttle Integration With Mir \* Structure/Process/Organization Relationships \* Joint Accomplishments \* Docking System \* Lessons Learned/Applicability to ISS \* Cargo Delivery and Return \* Summary Data on Cargo Delivered to/Returned From the Mir Under the Mir Shuttle/Mir-NASA Programs \* List of Russian Cargo on Shuttle Flights to the Mir Station \* Unique Features of Mir-Shuttle and Mir-NASA Orbiter Flights With Respect to Russian Cargo \* Accommodation \* Principal Stages of Orbiter Processing for Carrying Russian Logistics \* Parties' Primary Accomplishments Under Mir-Shuttle/Mir-NASA Programs \* Joint Shuttle-Mir Operations \* Mission Control and Real-Time Operations During Shuttle Docking Flights \* Operations During the Long-Duration Missions \* Safety Assurance Process \* Documentation Structure \* Policies and Ground Rules \* Top Safety Joint Accomplishments \* Top Safety Lessons Learned \* Crew Training \* Overview of Crew Training \* Training of Astronauts in Russia \* Mir Station Systems and Soyuz TM Training \* Training in the Soyuz TM Integrated Simulator \* Training of Astronauts on Mir Orbital Complex Simulators and System Mockups \* Conclusions and Proposals for the Overall Astronaut Training Program \* Training for Cosmonauts in the U.S. \* Crew Training for Execution of the Science Program \* NASA Astronaut Training for the Mir EVA Program \* Summary of Mir-NASA Crew Training \* Joint EVA Working Group \* Structures/Processes/Relationships \* Certificate of Flight Readiness (COFR) Process \* Training \* Accomplishments \* Lessons Learned \* Summary of Joint Cosmonaut-Astronaut EVA \* Medical Support \* Introduction \* Goals \* Principles and Structure \* Evaluating Crew Health and Medical Monitoring \* General Crew Training Overview \* Astronaut Training \* Biomedical Crew Training \* Role of Russian Flight Surgeons \* Conclusions and Recommendations for the Overall Medical Support Program \* Accomplishments and Lessons Learned \* Summary of the Medical Support Group's Accomplishments \* Crew Operations on Mir \* Joint Activities of Mir and Shuttle Crews \* NASA Astronaut Crew Transfers \* Accomplishments \* Objectives \* Crew Responsibilities \* EVA Operations \* Interactions of the Russian-American Crews With the Main Real-Time Operations \* Management Group and the NASA Consultant Group at MCC-M \* Conclusions and Recommendations \* Science Program \* Introduction \* Mission Science Working Group (WG-4) \* NASA Russian Public Affairs Working Group (WG-1) Report \* Responsibilities \* Structure \* Accomplishments \* Lessons Learned and Applications to ISS \* Applications to the International Space Station (ISS) \* Unique Issues \* Use of Shuttle for the Space Station Logistics Support \* Interaction Between International Crews \* Space Station System Serviceability Over a Long-Term Mission \* Experience in Off-Nominal Situations Recovery \* Joint Ground Operations With Logistics Items

\* Research of Station Environment \* Russian/U.S. Cargo Integration \* Development of Joint Documents \*  
Experience Gained in Joint Shuttle/Mir Complex Control From MCC-H/MCC-M \* Science Research  
Accomplishments \* Combining Experience of Two Space Engineering Schools \* Acronym List

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