## References

- 1. Neville Kidger, "Mir Space Station Update," Spaceflight, v. 37, March 1995, p. 99.
- 2. Space Calendar, Jan. 9-15 and Jan. 23-29, 1995.
- 3. David S. F. Portree, "Mir Hardware Heritage," NASA RP-1357, 1995, p. 117.
- 4. Portree, "Heritage," p. 146-147.
- 5. Kidger, "Mir...Update," p. 99.
- 6. Chris van den Berg, "MirNews" 242, Jan. 26, 1995.
- 7. NASA Public Affairs Office, STS-63 Mission Report.
- 8. William Harwood, "Thruster Problem Prompts Team Integration," Space News, Feb. 13-19, 1995.
- 9. Space Calendar, Jan. 30-Feb. 5, 1995.
- 10. Portree, "Heritage," p. 194.
- 11. NASA Kennedy Space Center, STS-63 Mission Highlights at (http://www.ksc.nasa.gov/shuttle/missions/sts-63/mission-sts-63.html).
- 12. Harwood, "Thruster Problem...."
- 13. Peter B. de Selding, "Shuttle-Mir Dockings Pose Logistics Problems," Space News, Feb. 20-27, 1995.
- 14. NASA KSC, STS-63 Mission Highlights.
- 15. Space News, Feb. 13-19, 1995.
- 16. Ben Iannotta, "Station Engineers Study Mir's Telltale Scars from Debris," Space News, March 22-April 2, 1995, p. 10.
- 17. Roelof Schuiling, "EVAs Follow Mir Rendezvous," Spaceflight, v. 37, May 1995, p. 155.
- 18. NASA KSC, STS-63 Mission Highlights.
- 19. van den Berg, "MirNews" 244, Feb. 12, 1995.
- 20. Ibid.
- 21. Ibid.
- 22. Space Calendar, Feb. 20-26, 1995.
- 23. Kaliningrad Mission Control Center, Mir 18 Status Report 1, March 14, 1995.
- 24. van den Berg, "MirNews" 247, March 16, 1995.
- 25. Kaliningrad MCC, Mir 18 Status Report 3, March 16, 1995.
- 26. William Harwood, "Thagard Joins Mir Cosmonauts," Space News, March 30-April 5, 1995.
- 27. Kaliningrad MCC, Mir 18 Status Report 4, March 17, 1995.
- 28. Neville Kidger, "Thagard Joins Cosmonauts," Spaceflight, v. 37, June 95, p. 190.
- 29. Neville Kidger, "Mir Docking Plans Meet with Success," Spaceflight, v. 37, July 95, p. 221.
- 30. Kaliningrad MCC, Mir 18 Status Reports 7 and 8, March 28 and 31, 1995.
- 31. Kidger, "Mir Docking Plans...," p. 222.
- 32. Kidger, "Mir Docking Plans...," p. 223.
- 33. Ibid.
- 34. van den Berg, "MirNews" 249, 250, 251—April 6, 12, 20, 1995.
- 35. van den Berg, "MirNews" 249, April 6, 1995.

- 36. NASA PAO, Mir 18 Mission Science Reports, April 19-25, 1995.
- 37. Kidger, "Mir Docking Plans...," p. 223.
- 38. NASA PAO, Mir 18 Mission Science Report, May 4, 1995.
- 39. van den Berg, "MirNews" 253 and 254, May 15 and 16, 1995.
- 40. Kaliningrad MCC, Mir 18 Status Report 20, May 12, 1995.
- 41. van den Berg, "MirNews" 255 and 256, May 17 and 18, 1995).
- 42. Craig Covault, "EVA Problems Delay Mir Station Changes," Aviation Week & Space Technology, v. 142, May 22, 1995, p. 65.
- 43. Kidger, "Mir Docking Plans...," p. 223.
- 44. Kidger, "Mir Docking Plans...," p. 224.
- 45. NASA PAO, Mir 18 Mission Science Report, May 22 and May 24, 1995.
- 46. Kidger, "Mir Docking Plans..., p. 224.
- 47. van den Berg, "MirNews" 259, May 26, 1995.
- 48. Kidger, "Mir Docking Plans...," p. 224.
- Anser Center for International Aerospace Cooperation, Moscow Office Report 133, May 26, 1995.
- 50. Nicholas L. Johnson, The Soviet Year in Space, 1990. Colorado Springs, Colorado, Teledyne Brown Engineering, 1991, p. 98.
- 51. Mir Extension Assessment Team, "MEAT Mir Diagrams to Facilitate Joint Technical Discussions, Vol. I: Modules and Vehicles," [Johnson Space Center], Feb. 1996.
- 52. Kidger, "Euromir 95," Spaceflight, v. 37, Dec. 1995, p. 404.
- 53. L. Van den Ableen, "A Mir Matter of Change," Spaceflight, v. 37, Aug. 1995, p. 293.
- 54. "Spektr Module Soon to Augment Mir Station," 957A0681B SEGODNYA, 4/27/95 p. 9; translated in JPRS Report, Space Science and Engineering, FBIS-UST-95-030, p. 20.
- 55. NASA PAO, Internet Shuttle/Mir page.
- 56. Anser CIAC, "Moscow Office Report" 158, Nov. 10, 1995.
- 57. Kidger, "Mir Docking Plans...," p. 225.
- 58. Kaliningrad MCC, Mir 18 Mission Status Report 28, June 9, 1995.
- 59. Kidger, "Mir Docking Plans ...," p. 225.
- 60. Kaliningrad MCC, Mir 18 Mission Status Report 28, June 9, 1995.
- 61. Kidger, "Historic...," p. 274.
- 62. van den Berg, "MirNews" 264, June 17, 1995.
- 63. Kidger, "Historic...," p. 274.
- 64. NASA Advisory Council Task Force on the Shuttle-Mir Rendezvous and Docking Missions, Fifth Report, Sept. 21, 1995, part 2, p. 6.
- 65. Kaliningrad MCC, Mir 18 Status Report 31, June 20, 1995.
- 66. Portree, "Heritage," p. 34.
- 67. Neville Kidger, "Development of the Orbiter Docking system," Spaceflight v. 37 June 1995, p. 188.
- 68. Neville Kidger, "STS-71 Docking Plans," Spaceflight, v. 37, June 1995, p. 187.
- 69. Portree, "Heritage," p. 166.
- 70. James R. Asker, "Shuttle Docking System Performs Many Tasks," Aviation Week and Space Technology, v. 143, July 3, 1995, p. 21.

- 71. Kidger, "Historic...," p. 275.
- 72. STS-71 Mission Control Center Reports, NASA STS-71 homepage, MCC Status Reports 1, 2, & 3, June 27-28, 1995.
- 73. James T. McKenna, "Atlantis Mission Verifies Mir Rendezvous Scheme," Aviation Week & Space Technology, Nov. 21, 1994, p. 101.
- 74. Kidger, "Historic...," p.275.
- 75. STS-71MCC Status Report 4, June 29, 1995.
- 76. Kidger, "Historic...," pp.276-277.
- 77. STS-71 MCC Status Reports 5 and 6, June 29-30, 1995.
- 78. Kidger, "Historic...,"pp. 276-277.
- 79. STS-71 MCC Status Reports 7 and 8, June 30-31, 1995.
- 80. Kidger, "Historic...," p. 277.
- 81. Roelof L. Schuiling, "First Docking Mission," Spaceflight, v. 37, Oct. 1995, p. 333.
- 82. Ben Huset, "Mirwatch," Aug. 1995.
- 83. James T. McKenna, "Joint Flight Proves Shuttle-Mir Plans," Aviation Week & Space Technology, July 10, 1995, p. 22.
- 84. STS-71 MCC Status Reports 16, 18, 20, July 5, 6, 7, 1995.
- 85. NASA Advisory Council Task Force on the Shuttle-Mir Rendezvous and Docking Missions, Fifth Report, Sept. 21, 1995, part 2, p. 6.
- 86. van den Berg, "MirNews" 266, July 17, 1995.
- 87. Neville Kidger, "Three EVAs for Mir Duo," Spaceflight, v. 37, Sept. 95, p. 311.
- 88. Ibid.
- 89. van den Berg, "MirNews" 266, July 17, 1995.
- 90. Kidger, "Three EVAs...," p. 311.
- 91. Craig Covault, "EVAs, Station Changes Keep Cosmonauts Busy," Aviation Week and Space Technology, July 24, pp. 62-63.
- 92. Kidger, "Three EVAs...," p. 311.
- 93. van den Berg, "MirNews" 268, July 22, 1995.
- 94. Space Calendar, Aug. 28-Sept 3, 1995.
- 95. van den Berg, "MirNews" 269, Aug. 26, 1995.
- 96. Kidger, "Euromir 95," p. 404.
- 97. ESA Press Release 23-95, Paris, Sept. 4, 1995.
- 98. Roelof L. Schuiling, "First Docking Mission," Spaceflight, v. 37, Oct. 1995, p. 335.
- 99. van den Berg, "MirNews" 272, Sept 11, 1995.
- 100. "ESA Astronaut Selected for Euromir 95," Spaceflight, v. 37, May 1995, p. 175.
- 101. Kidger, "Euromir 95," p. 403.
- 102. Anser CIAC, Moscow Office Report 155, Oct. 20, 1995.
- 103. ESA Press Releases 18-95, 42-95, and 43-95.
- 104. Huset, "Mirwatch," Nov. 1995.
- 105. Peter B. de Selding, "ESA, Russia Discuss Mir Mission Extension," Space News, v. 6, no. 40, Oct. 16-22, 1995.
- 106. ESA Press Release 42-95.
- 107. Kidger, "Euromir 95," p. 404.

- 108. ESA Press Releases 18-95, 42-95, and 08-96.
- 109. Huset, "Mirwatch," Nov. 1995.
- 110. Craig Covault, "Mir Crew Repairs Air Scrubbing System," Aviation Week and Space Technology, V. 143, Nov.6, 1995, p. 27.
- 111. Huset, "Mirwatch," Nov., Dec., 1995.
- 112. Peter B. de Selding, "Mir Cosmonauts Testing Air Cleaner that Uses Microbes to Convert Gases," Space News, v. 6, no. 43, Nov. 6-12, 1995.
- 113. NASA Public Affairs Office, STS-74 Press Kit.
- 114. Roelof L. Schuiling, "Module for Mir," Spaceflight, v. 38, Jan 1996, p. 5.
- 115. William Harwood, "Canadian Astronaut to Erect Docking Module on Mir," Space News v. 6, no. 43, Nov. 6-12, 1995.
- 116. Dennis Newkirk, "New Module for Mir, Spaceflight," v. 37, Nov.1995, p. 369.
- 117. Portree, "Heritage," p. 166.
- 118. NASA PAO, STS-74 Press Kit, "Orbiter Docking System."
- 119. NASA PAO, STS-74 Press Kit, "Mission Summary."
- 120. Roelof Schuiling, "Second Shuttle Docking with Mir," Spaceflight ,v. 38, March 96, pp. 90-91.
- 121. NASA PAO, STS-74 Press Kit, "Mir Cooperative Solar Array Program."
- 122. Friends and Partners in Space homepage, MSCA description by Gabriel R. Katell.
- 123. James R. Asker, "Atlantis Passes First Space Station Assembly Test," Aviation Week and Space Technology, v. 143, Nov. 20, 1995, p. 91.
- 124. Roelof Schuiling, "Second Shuttle Docking...," p. 90.
- 125. Ibid.
- 126. Asker, "Atlantis Passes...," pp. 90.-91.
- 127. James R. Asker, "Module Delivery Offers Mir Image of New Station," Aviation Week and Space Technology, Dec. 11, 1995, pp. 60-61.
- 128. NASA PAO, STS-74 Press Kit.
- 129. Asker, "Atlantis Passes...," pp. 90-91.
- 130. Neville Kidger, "Mir Highlights," Spaceflight, v. 38, March 1996, p. 93.
- 131. Ibid.
- 132. Theo Pirard, "Art Exhibition in Space." Spaceflight, v. 38, Feb. 1996, p.64.
- 133. Kidger, "Highlights," p. 93.
- 134. Ibid.
- 135. Neville Kidger, "Science Tasks and EVA for Crew," Spaceflight, v. 38, April 1996, p. 140.
- 136. Ibid.
- 137. Portree, "Heritage," p. 121.
- 138. van den Berg, "MirNews" 289, Feb. 16, 1996.
- 139. ESA Press Releases 08-96 and 09-96.
- 140. Kidger, "Science Tasks...," p. 141.
- 141. Kidger, "Crew Change at Mir," Spaceflight, v. 38, May 1996, p. 152.
- 142. Ibid.
- 143. Ibid.
- 144. van den Berg, "MirNews" 292, Feb. 29, 1996.

- 145. Kidger, "Crew Change...," p. 153.
- 146. Huset, "Mirwatch." April 1996.
- 147. van den Berg, "MirNews" 293 and 294, March 13 and 15, 1996.
- 148. NASA PAO, STS-76 Mission Status Reports 1 and 2, March 22, 1996.
- 149. NASA PAO, STS-76 Mission Status Reports 2 and 3, March 22 & 23, 1996.
- 150. NASA PAO, STS-76 Mission Status Report 3, March 23, 1996.
- 151. NASA PAO, STS-76 Mission Status Report 4 March 24, 1996.
- 152. NASA PAO, STS-76 Press Kit, "Mir Rendezvous and Docking."
- 153. NASA PAO, STS-76 Mission Status Reports 4 and 5, March 24, 1996.
- 154. James R. Asker, "Mir Spacewalk Set for Atlantis Crew," Aviation Week & Space Technology, March 18, 1996, p. 61.
- 155. NASA PAO, STS-76 Mission Status Report 8 March 26, 1996.
- 156. NASA PAO, STS-76 Press Kit.
- 157. Ibid.
- 158. Ibid.
- 159. NASA PAO, STS-76 Mission Status Reports 8 and 9, March 26, 1996.
- 160. NASA PAO, STS-76 Press Kit.
- 161. Ibid.
- 162. NASA PAO, STS-76 Mission Status Report 10, March 27, 1996.
- 163. NASA PAO, STS-76 Mission Status Report 12 March 28, 1996.
- 164. Johnson Space Center, Space News Roundup, April 5, 1996, p. 4.
- 165. NASA PAO, STS-76 Mission Status Report 17, March 30, 1996.
- 166. Moscow Mission Control Center, Mir Status Reports 1,2 and 3, April 5, 12, and 19, 1996.
- 167. "Russians Delay Launch of Priroda Module," Aviation Week and Space Technology, Feb. 5, 1996, p. 64.
- 168. Joseph C. Anselmo, "Priroda, Mir Dock," Aviation Week & Space Technology, May 6, 1996, p. 63.
- 169. Mir Extension Assessment Team, p. 7-9.
- 170. Gary H. Kitmacher, "Integration of Systems on Mir Processes and Comparisons," presented at the 33rd Space Congress, [Location?] April 23-26, 1996.
- 171. "The Priroda Mission,"(http://www.ba.dlr.de/NE-WS/ws5/priroda.html).
- 172. Anser CIAC, Moscow Office Report 183.
- 173. van den Berg, "MirNews" 300, April 26, 1996.
- 174. Ibid.
- 175. Moscow MCC, Mir Status Report 5, May 3, 1996) (Mir 21 Weekly Update from NASA Home Page, June 14, 1996.
- 176. Mission Control Center, Moscow, Mir Status Reports 6 and 7, May 10 and May 17, 1996.
- 177. "News breaks," Aviation Week and Space Technology, May 27, 1996, p. 16.
- 178. Moscow MCC, Mir Status Report 8, May 24, 1996.
- 179. van den Berg, "MirNews" 305, May 21, 1996.
- 180. Florida Today, "Space Today," May 25, 1996.
- 181. Moscow MCC, Mir Status Report 9, May 31, 1996.

- 182. Moscow MCC, Mir Status Report 10, June 7, 1996.
- 183. van den Berg, "MirNews" 309, June 7, 1996.
- 184. Moscow MCC, Mir Status Report [11] June 14, 1996.
- 185. van den Berg, "MirNews" 310, June 13, 1996.
- 186. Moscow MCC, Mir Status Reports [11], [12], and 13, June 14, 21, and 28, 1996.
- 187. Moscow MCC, Mir Weekly Update, Aug. 2, 1996.
- 188. Moscow MCC, Mir Status Report 19, Aug. 9, 1996.
- 189. Centre National d'Etudes Spatiales, Cassiopee press releases, Aug. 21-Sept. 17, 1996. (www.cnes.fr/IO\_Vol\_habit/cas)