

# STS-98/ISS Stage 5A Quick-Look Data

# SpaceCalc

STS-98/ISS Stage 5A Quick-Look Data				SpaceCalc	
Position	ISS-1 (Soyuz Up/STS Down)	Family	DOB	STS-98 Hardware and Flight Data	
<b>Commander</b>	<b>William Shepherd, 51</b> STS-27, 41, 52, Soyuz TM-31	Married/0	07/26/49	<b>STS Mission</b>	STS-98/ISS-5A (102nd flt)
<b>Soyuz Pilot</b>	<b>Yuri Gidzenko, 38</b> Soyuz TM-22, TM-31	Married/2	03/26/62	<b>Orbiter</b>	Atlantis/OV-104 (23)
<b>Engineer</b>	<b>Sergei Krikalev, 42</b> Soyuz TM-7, TM-12, STS-60, STS-88, TM-31	Married/1	08/27/58	<b>Payload</b>	Destiny laboratory module
				<b>Launch</b>	01/18/01 07:44:00 GMT
				<b>Pad/MLP/FR</b>	LC-39A/MLP-2/LCC-2
				<b>Prime TAL</b>	Zaragoza, Spain
				<b>Landing</b>	01/29/01 03:03:00 GMT
				<b>Landing Site</b>	KSC, Runway 15/33
				<b>Duration</b>	10/19:19
				<b>Atlantis</b>	172/13:51:51
				<b>STS Program</b>	881/06:59:19
				<b>MECO Ha/Hp</b>	194 X 46 statute miles
				<b>OMS-2 Ha/Hp</b>	201 X 121
				<b>ISS Ha/Hp</b>	235 X 229 (varies)
				<b>Period</b>	92.3 minutes
				<b>Inclination</b>	51.6 degrees
				<b>Velocity</b>	17,169 mph
				<b>EOM Miles</b>	4.5 million
				<b>EOM Orbits</b>	170 (deorbit/land)
				<b>SSMEs (2A)</b>	2052/2044/2047
				<b>ET/SRB</b>	ET-106/BI105-RSRM 77
				<b>Software</b>	OI-28
				<b>Left OMS</b>	LP-03/27/F3
				<b>Right OMS</b>	RP-04/23/F3
				<b>Forward RCS</b>	FRC4/23/F3
				<b>Airlock</b>	External
				<b>RMS</b>	#202
				<b>Cryo/GN2</b>	5 cryo/6 GN2
Position	STS-98	ISS-5A	Family	DOB	
<b>Commander</b>	<b>Mr. Kenneth Cockrell, 50</b> STS-56, 69, 80		Single/2	04/09/50	
<b>Pilot/IV</b>	<b>Mr. Mark Polansky, 44</b> Rookie		Single/0	06/02/56	
<b>MS1/EV2</b>	<b>Navy Cmdr. Robert Curbeam, 38</b> STS-85		Married/2	03/05/62	
<b>MS2/RMS/FE</b>	<b>Ms. Marsha Ivins, 49</b> STS-32, 46, 62, 81		Single/0	04/15/51	
<b>MS3/EV1</b>	<b>Thomas Jones, Ph.D., 45</b> STS-59, 68, 80		Single/0	01/22/55	
STS/Payload Weights at Launch/Landing			STS-98 Mission Patch		
<b>STS System at Launch</b>	4.5 million lbs				
<b>STS and Payload at Launch</b>	263,266 lbs				
<b>STS and Payload at Landing</b>	198,000 lbs				
<b>Destiny Laboratory Module</b>	32,000 lbs				
<b>Lab Dimensions</b>	14 X 28 feet				
<b>Utility Racks</b>	11				
<b>Science Racks</b>	13				
<b>Windows</b>	1				
					
STS-98 Flight Plan Highlights					
<b>01/15/01</b>	STS-98 countdown begins				
<b>01/18/01</b>	Launch at 2:44 a.m. EST; RMS/spacesuit checkout				
<b>01/19/01</b>	Atlantis docks with the space station at 9:04 p.m.				
<b>01/20/01</b>	EVA No. 1/Destiny laboratory module installation				
<b>01/21/01</b>	EVA No. 1 ends; Lab activation/ingress; radiator deploy				
<b>01/22/01</b>	EVA No. 2 begins				
<b>01/23/01</b>	EVA No. 2 ends; crew off-duty time				
<b>01/24/01</b>	EVA No. 3 begins				
<b>01/25/01</b>	EVA No. 3 ends; crew news conference				
<b>01/26/01</b>	Atlantis undocks from space station at 5:44 p.m.				
<b>01/27/01</b>	Re-entry systems checkout and cabin stow				
<b>01/28/01</b>	Atlantis lands at the Kennedy Space Center at 11:15 p.m.				
<b>01/29/01</b>	Contingency landing day				
<b>01/30/01</b>	Contingency landing day				
STS-98 will be the...					
<b>102nd</b>	Shuttle mission since STS-1				
<b>1st</b>	Of 7 flights in 2001				
<b>77th</b>	Post-Challenger mission				
<b>12th</b>	Of 88 ISS assembly flights				
<b>23rd</b>	Flight of Atlantis				
<b>58th</b>	Launch off pad 39A				
<b>26th</b>	Night launch				
<b>15th</b>	Night launch off pad 39A				
<b>17th</b>	51.6-degree inclination				
<b>54th</b>	Planned KSC landing				
<b>2nd</b>	KSC landing in a row				
<b>14.98</b>	Years since 51L (at launch)				
<b>5,469</b>	Days since 51L				
<b>Rev. B (12/15/2000)</b>					
<b>Compiled by William Harwood</b>					