

<b>NASA Spacewalk History</b>				<b>SpaceCalc</b>
<b>Year</b>	<b>Program</b>	<b>HH</b>	<b>MM</b>	<b>General Statistics (as of 12/05/00)</b>
<b>1965-66</b>	<b>Gemini Program</b>	<b>011</b>	<b>035</b>	<b>96 EVAs by astronauts on American missions</b>
<b>1969-72</b>	<b>Apollo Program</b>	<b>166</b>	<b>039</b>	<b>96 EVAs by Russian cosmonauts</b>
<b>1973-74</b>	<b>Skylab Program</b>	<b>083</b>	<b>015</b>	<b>13 EVAs by non-Russian Mir crew members</b>
<b>1983-</b>	<b>Shuttle Program</b>	<b>726</b>	<b>010</b>	<b>03 EVAs by U.S. Mir crew members</b>
	<b>57 STS EVAs</b>			<b>05 EVAs by U.S. astronauts outside Mir</b>
	<b>28 STS EVA flights</b>			<b>Longest single STS EVA: 08:29 (STS-49)</b>
	<b>Total Crew Hours</b>	<b>987</b>	<b>039</b>	<b>Shortest STS EVA: 03:05 (STS-41C)</b>
				<b>Most EVA time in a single flight: 35:26 (STS-61C)</b>
<b>No. Mission</b>	<b>Mission Date</b>	<b>HH</b>	<b>MM</b>	<b>International Space Station EVA Notes</b>
<b>3 STS-88</b>	<b>12/04-15/98</b>	<b>064</b>	<b>006</b>	ISS-2A: Node 1 connection to Zarya (Ross, Newman)
<b>1 STS-96</b>	<b>05/27-06/99</b>	<b>007</b>	<b>055</b>	ISS-2A.1: Station outfitting (Jernigan, Barry)
<b>1 STS-101</b>	<b>05/19-29/00</b>	<b>006</b>	<b>044</b>	ISS-2A.2a: Station outfitting (Voss, Williams)
<b>1 STS-106</b>	<b>09/08-20/00</b>	<b>006</b>	<b>014</b>	ISS-2A.2b: Zvezda connections (Lu, Malenchenko)
<b>4 STS-92</b>	<b>10/11-24/00</b>	<b>054</b>	<b>038</b>	ISS-3A: Z1, PMA-3 (Chiao, McArthur, Wisoff, Lopez-A.)
<b>3 STS-97</b>	<b>11/30/00</b>	<b>038</b>	<b>040</b>	ISS-4A: P6 solar array truss (Tanner, Noriega)
<b>0 STS-98</b>	<b>1/18/00</b>	<b>000</b>	<b>000</b>	ISS-5A: Destiny lab module (Jones, Curbeam)
<b>13</b>	<b>Total Crew Hours</b>	<b>178</b>	<b>017</b>	
				<b>Compiled by William Harwood</b>

<b>Gemini</b>		<b>Total:</b>	<b>11</b>	<b>35</b>	<b>Gemini Notes</b>
<b>1</b>	Gemini 4	Edward White	00	23	1st U.S. spacewalk; jet gun used
<b>2</b>	Gemini 9	Eugene Cernan	02	08	Jetpack test called off; fogged visor
<b>3</b>	Gemini 10	Michael Collins	01	30	2 EVAs; visit to Agena rocket
<b>4</b>	Gemini 11	Richard Gordon	01	57	2 EVAs; "rode" Agena rocket
<b>5</b>	Gemini 12	Edwin Buzz Aldrin	05	37	3 EVAs
<b>Apollo</b>		<b>Total:</b>	<b>166</b>	<b>39</b>	<b>Apollo Notes</b>
<b>6</b>	Apollo 9	David Scott Russell Schweickart	01 01	01 07	Earth-orbit crew transfer from CM to LM
<b>7</b>	Apollo 11	Neil Armstrong Edwin Buzz Aldrin	02 02	32 15	First lunar surface EVA
<b>8</b>	Apollo 12	Pete Conrad Alan Bean	07 07	45 45	2 4-hour moonwalks in Ocean of Storms; Surveyor 3 visit
<b>9</b>	Apollo 14	Alan Shepard Edgar Mitchell	09 09	23 23	Lunar rickshaw used; crew misses Cone crater; golf shots on moon
<b>10</b>	Apollo 15	Alfred Worden David Scott James Irwin	00 19 18	39 08 35	Hadley Rille; Lunar rover used for 1st time; Worden: CIS-Lunar EVA
<b>11</b>	Apollo 16	Ken Mattingly John Young Charles Duke	01 20 20	24 14 14	Descartes area; Lunar rover used; Mattingly: CIS-Lunar EVA
<b>12</b>	Apollo 17	Ronald Evans Eugene Cernan Harrison Schmitt	01 22 22	06 04 04	Taurus-Littrow region; final moonwalks; Evans: CIS-Lunar EVA

<b>Skylab</b>	<b>Total:</b>	<b>83</b>	<b>15</b>	<b>Skylab Notes</b>
<b>13</b> Skylab 2	Pete Conrad Joseph Kerwin P.J. Weitz	05 03 01	51 30 44	Repair spacewalk to install a shade over station after solar panel ripped off in launch
<b>14</b> Skylab 3	Alan Bean Owen Garriott Jack Lousma	02 13 10	45 44 59	Maintenance/science EVAs
<b>15</b> Skylab 4	Gerald Carr Gibson Pogue	15 15 13	48 20 34	Maintenance/science EVAs
<b>Shuttle</b>	<b>Total:</b>	<b>726</b>	<b>10</b>	<b>Shuttle Notes</b>
<b>16</b> STS-6 1 1 EVA	Story Musgrave Donald Peterson	04 04	17 17	04/83: First shuttle spacewalk
<b>17</b> STS-41B 3 2 EVAs	Bruce McCandless  Robert Stewart	06 06 05 06	00 17 35 02	02/84: Flight test of manned maneuvering unit; famous photo of McCandless against limb of Earth
<b>18</b> STS-41C 5 2 EVAs	George Nelson  James van Hoften	03 07 02 06	05 07 59 30	04/84: Solar Max repair spacewalks; MMU fails to grapple SMM; Terry Hart uses RMS to capture satellite; EVA-2 repair successful
<b>19</b> STS-41G 6 1 EVA	David Leestma Kathryn Sullivan	03 03	29 29	10/84: First EVA by an American female; orbital refueling tested
<b>20</b> STS-51A 8 2 EVAs	Joseph Allen  Dale Gardner	12  12	14  14	11/84: Westar, Palapa satellite retrieval and repair; MMUs and stinger used to snag satellites; most visually dramatic EVA in shuttle history?

<b>21</b>	STS-51D	David Griggs	03	10	04/85: First contingency spacewalk; Leasat fails to activate	
9	1 EVA	Jeffrey Hoffman	03	10		
<b>22</b>	STS-51I	William Fisher	07	07	08/85: Leasat satellite stranded during STS-51D successfully hot wired and relaunched	
11	2EVAs		04	31		
		James van Hoften	07	20		
			04	31		
<b>23</b>	STS-61B	Sherwood Spring	05	34	11/85: Space station construction; EASE/ACCESS payload	
13	2 EVAs		06	46		
		Jerry Ross	05	34		
			06	46		
<b>24</b>	STS-37	Jerry Ross	04	27	04/91: 1st post-Challenger EVAs; Gamma Ray Observatory antenna freed in contingency work	
15	2 EVAs		05	57		
		Jay Apt	04	27		
			05	57		
<b>25</b>	STS-49	Pierre Thuot	03	43	05/92: Intelsat repair mission; 4 EVAs; 2 attempts by Thuot and Hieb to capture satellite; 3rd EVA, with Akers, succeeds when three astronauts manually grab satellite; 4th EVA by Akers and Thornton to practice space station construction  Total: 33:56	
19	4 EVAs		05	30		
		Richard Hieb	08	29		
			03	43		
			05	30		
		Thomas Akers	08	29		
			07	45		
		Kathryn Thornton	07	45		
<b>26</b>	STS-54	Mario Runco	04	28		01/93: First generic space station EVA
20	1 EVA	Gregory Harbaugh	04	28		
<b>27</b>	STS-57	David Low	05	50	06/93: Eureka antennas stowed; HST tools, techniques, tested	
21	1 EVA	Jeff Wisoff	05	50		

<b>28</b>	STS-51	Carl Walz	07	05	09/93: Third generic ISS EVA
22	1 EVA	James Newman	07	05	
<b>29</b>	STS-61	Story Musgrave	07	53	12/93: Hubble repair mission; 1st flight with five back-to-back EVAs, three by Musgrave and Hoffman, two by Akers and Thornton; all mission objectives met  Total EVA time: 35 :26 <b>SINGLE FLIGHT RECORD</b>
27	5 EVAs		06	47	
		Thomas Akers	07	21	
			06	35	
		Jeffrey Hoffman	06	50	
			07	53	
			06	47	
		Kathryn Thornton	07	21	
			06	35	
			06	50	
<b>30</b>	STS-64	Mark Lee	06	51	09/94: Tested SAFER backpack
28	1 EVA	Carl Meade	06	51	
<b>31</b>	STS-63	Michael Foale	06	39	02/95: ISS EVA cut short due to low temps in spacesuits
29	1 EVA	Bernard Harris	06	39	
<b>32</b>	STS-69	Michael Gernhardt	06	46	09/95: Suit modifications tested; low temps no problem
30	1 EVA	James Voss	06	46	
<b>33</b>	STS-72	Leroy Chiao	06	09	01/96: ISS connectors, tools tested
32	2 EVAs		06	53	
		Daniel Barry	06	09	
		Winston Scott	06	53	
<b>34</b>	STS-76	Rich Clifford	06	02	03/96: ISS tools tested; experiments mounted on Mir module
33	1 EVA	Linda Godwin	06	02	

<b>35</b>	STS-82	Mark Lee	06	42	02/97: HST servicing mission No. 2; 5th spacewalk added to repair ripped insulation on telescope; all flight objectives met  Total: 33:11
38	5 EVAs		07	11	
		Steven Smith	05	17	
			06	42	
			07	11	
		Gregory Harbaugh	05	17	
			07	27	
		Joseph Tanner	06	34	
			07	27	
			06	34	
<b>36</b>	STS-86	Scott Parazynski	05	01	10/97: Shuttle-Mir docking mission No. 7; experiment retrieval from Mir; SAFER tests
39	1 EVA	Vladimir Titov (CIS)			
<b>37</b>	STS-87	Winston Scott	7	43	11-12/97: Manual Spartan-201 retrieval; problems with deploy on 11/21; ISS crane ops; additional crane tests added in second, unplanned EVA
41	2 EVAs		4	59	
		Takao Doi	7	43	
			4	43	
<b>38</b>	STS-88	Jerry Ross	07	22	12/7-12/98: First space station assembly EVAs to connect and outfit Unity, Zarya modules; highly successful  Total: 21:22
44	3 EVAs		07	02	
			06	59	
		James Newman	07	22	
			07	02	
			06	59	
<b>39</b>	STS-96	Tamara Jernigan	07	55	05/29-30/99: 2nd ISS assembly spacewalk; U.S., Russian crane, tools mounted
45	1 EVA	Daniel Barry	07	55	
<b>40</b>	STS-103	Steven Smith	08	15	12/22-24/99: Hubble Space Telescope Servicing Mission 3A; Six new gyroscopes installed, new computer, fine guidance sensor, S-band transmitter, insulation  Total: 24:33
48	3 EVAs		08	08	
		John Grunsfeld	08	15	
			08	08	
		Michael Foale	08	15	
		Claude Nicollier	08	15	

<b>41</b>	STS-101	James Voss	06	44	05/21-22/00: ISS 2A.2a: Installation of Strela boom on PMA-1; replacement of early communications antenna on Unity; insulation on handrails; TV cable
49	1 EVA	Jeffrey Williams	06	44	
<b>42</b>	STS-106	Edward Lu	06	14	9/11/00: ISS 2A.2b: Work to electrically connect Russian Zvezda command module; magnetometer installation; tool boxes
50	1 EVA	Yuri Malenchenko	06	14	
<b>43</b>	STS-92	Leroy Chiao	06	28	10/15-18/00: ISS 3A: EVA crew members staged four back-to-back spacewalks to electrically connect Z1 truss; attach PMA-3; complete umbilicals connections and other work  Total: 27:19
54	4 EVAs	William McArthur	06	48	
		Jeff Wisoff	06	48	
		Jeff Wisoff	07	07	
		Mike Lopez-Alegria	06	56	
		Mike Lopez-Alegria	07	07	
			06	56	
<b>44</b>	STS-97	Joseph Tanner	07	33	11/30/00-TBD: ISS 4A: Installation of P6 solar arrays; starboard wing deployed during first spacewalk; port array deployed the next day after trouble with sprung tension wires on starboard array. P6 wired into station system during second EVA; loose array blanket fixed during third EVA.  Total: 19:20
57	3 EVAs		06	37	
			05	10	
		Carlos Noriega	07	33	
			06	37	
			05	10	