

NASA Spacewalk History				SpaceCalc
Year	Program	HH	MM	General Statistics (as of 02/12/01)
1965-66	Gemini Program	011	035	99 EVAs by astronauts on American missions
1969-72	Apollo Program	166	039	96 EVAs by Russian cosmonauts
1973-74	Skylab Program	083	015	13 EVAs by non-Russian Mir crew members
1983-	Shuttle Program	754	058	03 EVAs by U.S. Mir crew members
	59 STS EVAs			05 EVAs by U.S. astronauts outside Mir
	30 STS EVA flights			Longest single STS EVA: 08:29 (STS-49)
	Total Crew Hours	1016	027	Shortest STS EVA: 03:05 (STS-41C)
				Most EVA time in a single flight: 35:26 (STS-61)
No. Mission	Mission Date	HH	MM	International Space Station EVA Notes
3 STS-88	12/04-15/98	064	006	ISS-2A: Node 1 connection to Zarya (Ross, Newman)
1 STS-96	05/27-06/99	007	055	ISS-2A.1: Station outfitting (Jernigan, Barry)
1 STS-101	05/19-29/00	006	044	ISS-2A.2a: Station outfitting (Voss, Williams)
1 STS-106	09/08-20/00	006	014	ISS-2A.2b: Zvezda connections (Lu, Malenchenko)
4 STS-92	10/11-24/00	054	038	ISS-3A: Z1, PMA-3 (Chiao, McArthur, Wisoff, Lopez-A.)
3 STS-97	11/30-11/00	038	040	ISS-4A: P6 solar array truss (Tanner, Noriega)
2 STS-98	02/07/01	028	048	ISS-5A: Destiny lab module (Jones, Curbeam)
15	Total Crew Hours	207	005	
				Compiled by William Harwood

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

Skylab	Total:	83	15	Skylab Notes
13 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
14 Skylab 3	Alan Bean Owen Garriott Jack Lousma	02 13 10	45 44 59	Maintenance/science EVAs
15 Skylab 4	Gerald Carr Gibson Pogue	15 15 13	48 20 34	Maintenance/science EVAs
Shuttle	Total:	754	58	Shuttle Notes
16 STS-6 1 1 EVA	Story Musgrave Donald Peterson	04 04	17 17	04/83: First shuttle spacewalk
17 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
18 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
19 STS-41G 6 1 EVA	David Leestma Kathryn Sullivan	03 03	29 29	10/84: First EVA by an American female; orbital refueling tested
20 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?

21	STS-51D	David Griggs	03	10	04/85: First contingency spacewalk; Leasat fails to activate	
9	1 EVA	Jeffrey Hoffman	03	10		
22	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		
23	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		
24	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		
25	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		
26	STS-54	Mario Runco	04	28		01/93: First generic space station EVA
20	1 EVA	Gregory Harbaugh	04	28		
27	STS-57	David Low	05	50	06/93: Eureca antennas stowed; HST tools, techniques, tested	
21	1 EVA	Jeff Wisoff	05	50		

28	STS-51	Carl Walz	07	05	09/93: Third generic ISS EVA
22	1 EVA	James Newman	07	05	
29	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 SINGLE FLIGHT RECORD
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	
30	STS-64	Mark Lee	06	51	09/94: Tested SAFER backpack
28	1 EVA	Carl Meade	06	51	
31	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	
32	STS-69	Michael Gernhardt	06	46	09/95: Suit modifications tested; low temps no problem
30	1 EVA	James Voss	06	46	
33	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	
34	STS-76	Rich Clifford	06	02	03/96: ISS tools tested; experiments mounted on Mir module
33	1 EVA	Linda Godwin	06	02	

35	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	
			05	17	
		Gregory Harbaugh	07	27	
			06	34	
		Joseph Tanner	07	27	
			06	34	
36	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)			
37	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	
38	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	
39	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	
40	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	

41	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	
42	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	
43	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	
44	STS-97	Joseph Tanner	07	33	11/30/00-12/11/00: ISS 4A: Install 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	
45	STS-98	Thomas Jones	07	34	02/07-18/01: Attach U.S. laboratory module, Destiny
59	3 EVAs		06	50	
		Robert Curbeam	07	34	
			06	50	