

EXTRAVEHICULAR ACTIVITIES

Mission		Orb. OV-/Flt	Sched EVA	EVA's				Crew Person		EMU No.			PLSS No.			SOP No.			DCM No.			SCU No.		HUT No.	
Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
1	1	102 - 1	None					Young	Crippen	1002	1003		1003	1005		1003	1004		1004	1002		1004	1005	1009 (L)	1021 (L)
2	2	102 - 2	None					Engle	Truly	1009	1010		1006	1005		1006	1004		1006	1005		1004	1005	1009 (L)	1021 (L)
3	3	102 - 3	None					Lousma	Fullerton	1012	1013		1006	1005		1005	1004		1004	1005		1004	1005	1017 (XL)	1021 (L)
4	4	102 - 4	None					Mattingly	Hartsfield	1019	1016		1006	1005		1005	1004		1003	1002		1005	1004	1011 (M)	1021 (L)
5	5	102 - 5	One	Not Performed	Not Performed	Not Performed		Lenoir	Allen	1023	1022		1006	1005		1003	1005		1005	1002		1005	1004	1020 (M)	1018 (S)
6	6	099 - 1	One	4/7/83	3:58	4:19		Musgrave	Peterson	1026	1024	1025	1003	1005	1006	1003	1007	1006	1006	1007	1005	1006	1007	1024 (L)	1021 (L)
7	7	099 - 2	One					Thagard	Fabian	1028	1027		1005	1003		1007	1003		1007	1006		1007	1006	1021 (L)	1024 (L)
8	8	099 - 3	None					Gardner	Truly	1031	1032		1005	1006		1007	1006		1007	1002		1006	1007	1021 (L)	1009 (L)
9	9	102 - 6	None					Young	Garriott	1037	1036		1008	1007		1008	1005		1004	1005		1004	1005	1021 (L)	1024 (L)
10	41B	099 - 4	Two	2/7/84 2/9/84	5:35 5:55	6:02 6:17		McCandless	Stewart	1040	1038	1041	1008	1009	1007	1003	1006	1010	1004	1009	1005	1009	1010	1020 (M)	1016 (M)
11	41C	099 - 5	Two	4/8/84 4/11/84	2:59 2:57	7:07 6:18, 6:05		Nelson	Von Hoften	1043	1044	1045	1008	1009	1007	1003	1006	1010	1004	1009	1005	1006	1007	1009 (L)	1017 (XL)
12	41D	103 - 1	None					Mullane	Hawley	1046	1048		1006	1010		1005	1007		1008	1011		1006	1007	1028 (M)	1027 (M)
13	41G	099 - 6	One	10/11/84	3:29	3:29		Leetsma	Sullivan	1049	1050	1053	1003	1008	1005	1003	1008	1011	1007	1004	1006	1009	1010	1023 (M)	1029 (M)
14	51A	103 - 2	Two	11/12/84 11/14/84	6:13 6:01	6:00 5:43		Allen	Gardner	1051	1052	1054	1009	1007	1006	1009	1007	1005	1009	1005	1008	1006	1007	1033 (M)	1030 (L)

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Seq.	STS	Flt	EVA	Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
15	51C	103 - 3	None					Buchli	Shriver	1055	1056		1003	1008		1003	1008		1007	1004		1006	1007	1023 (L)	1017 (XL)
16	51D	103 - 4	One	4/16/85	3:10	3:07		Hoffman	Griggs	1059	1060		1007	1010		1007	1006		1005	1010		1006	1007	1030 (L)	1036 (L)
17	51E	099 - 7	None					Thagard	Gregory	1061	1061		1003	1006		1003	1011		1007	1006		1009	1010	1023 (L)	1031 (L)
18	51G	103 - 5	None					Fabian	Nagel	1063	1062		1005	1009		1005	1009		1008	1009		1006	1007	1026 (L)	1035 (L)
19	51F	099 - 8	None					Musgrave	England	1064	1065		1010	1007		1010	1007		1010	1011		1009	1010	1036 (L)	1030 (L)
20	51I	103 - 6	Two	8/31/85 9/01/85	7:20 4:31	7:07 4:12, 4:28		Von Hoften	Fisher	1067	1066	1068	1006	1003	1009	1008	1003	1009	1006	1007	1009	1006	1007	1019 (XL)	1023 (L)
21	51J	104 - 1	None					Hilmers	Stewart	1072	1072		1005	1008		1005	1006		1008	1004		1011	1013	1026 (L)	1016 (M)
22	61A	099 - 9	None					Buchli	Dunbar	1074	1073		1010	1007		1010	1007		1010	1011		1009	1010	1036 (L)	1037 (M)
23	61B	104 - 2	Two	11/29/85 12/1/85	5:34 6:46	5:32 6:42		Ross	Spring	1077	1070	1079	1006	1011	1008	1005	1009	1012	1006	1002	1004	1011	1013	1035 (L)	1033 (M)
24	61C	102 - 7	None					Nelson	Chang-Diaz	1078	1081		1005	1010		1006	1007		1008	1010		1004	1005	1026 (L)	1036 (L)
25	51L	099 - 10	None					McNair	Onizuka	1080	1075		1007	1012		1005	1012		1011	1009		1009	1010	1037 (M)	1019 (XL)
26	26	103 - 7	None					Nelson	Lounge	1091	1090		1005	1011		1014	1004		2004	2002		1006	1007	1013 (L)	1043 (L)
27	27	104 - 3	None					Ross	Sheperd	1090	1092		1011	1013		1004	1007		2002	2005		1011	1013	1043 (L)	1046 (XL)
28	29	103 - 8	None					Bagian	Springer	1094	1090		1013	1011		1007	1004		2006	2002		1006	1007	1036 (L)	1043 (L)

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Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
29	30	104 - 4	None					Thagard	Lee	1096	1095		1005	1003		1014	1015		2005	2004		1011	1010	1034 (L)	1047 (XL)
30	28	102 - 8	None					Adamson	Brown	1099	1098		1013	1011		1010	1011		2006	2002		1004	1005	1036 (L)	1046 (L)
31	34	104 - 5	None					Chang-Diaz	Baker	2001	2003		1003	1005		1003	1006		2004	2005		1011	1013	1035 (L)	1034 (S)
32	33	103 - 9	None					Carter	Thorton	2006	2005		1013	1009		1011	1010		2006	2014		1006	1007	1046 (XL)	1018 (S)
33	32	102 - 9	None					Low	Dunbar	2003	2001		1005	1003		1006	1003		2005	2004		1004	1005	1034 (L)	1025 (S)
34	36	104 - 6	None					Hilmers	Thout	2006	2008		1014	1011		1011	1009		2007	2002		1011	1013	1036 (L)	1044 (L)
35	31	103 - 10	None					McCandless	Sullivan	2010	2012	2011	1009	1003	1013	1010	1003	1013	2014	2004	2006	1006	1007	1045 (M)	1038 (M)
36	41	104 - 7	None					Melnick	Akers	2013	2008		1005	1011		1014	1009		2005	2002		1006	1007	1043 (L)	1044 (L)
37	38	104 - 8	None					Springer	Meade	2010	2011		1009	1013		1010	1013		2014	2006		1011	1013	1034 (L)	1033 (M)
38	35	102 - 10	None					Hoffman	Lounge	2007	2009		1014	1006		1011	1006		2007	2003		1004	1005	1036 (L)	1039 (L)
39	37	103 - 11	Two	4/7/91 4/8/91	4:31 5:58	3:40 5:47		Ross	Apt	2009	2011	2014	1006	1013	1008	1006	1013	1015	2003	2006	2004	1011	1013	1039 (L)	1033 (M)
40	39	103 - 12	None					Harbaugh	McMonagale	2008	2013		1011	1005		1009	1014		2002	2005		1006	1007	1044 (L)	1043 (L)
41	40	102 - 11	None					Bagian	Jernigan	2007	2010		1014	1009		1011	1010		2007	2014		1004	1005	1036 (L)	1038 (M)
42	43	104 - 9	None					Adamson	Low	2014	2009		1008	1006		1015	1006		2004	2006		1011	1013	1035 (L)	1039 (L)

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Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
43	48	103 - 13	None					Buchli	Gemar	2008	2013		1011	1005		1009	1014		2002	2005		1006	1007	1044 (L)	1043 (L)
44	44	104 - 10	None					Runco	Voss	2019	2018		1009	1014		1010	1011		2014	2007		1011	1013	1051 (L)	1034 (L)
45	42	103 - 14	None					Thagard	Readdy	2013	2017		1005	1013		1014	1013		2005	2013		1006	1007	1043 (L)	1048 (XL)
46	45	104 - 11	None					Sullivan	Foale	2022	2018		1009	1014		1010	1011		2014	2007		1011	1013	1029 (M)	1034 (M)
47	49	105 - 1	Four	5/10/92 5/11/92	3:53 5:38	3:41 5:29, 5:37	3:43 5:30	Thout-EV1	Hieb-EV2	2020	2015		1006	1010		1006	1007		2006	2009		1015	1016	1039 (L)	1040 (L)
47	49	105 - 1	Four	5/13/92	8:30	SCU swap	8:29	Thout-EV1	Hieb-EV2	2020	2015		1006	1010		1006	1007		2006	2009		1015	1016	1039 (L)	1040 (L)
47	49	105 - 1	Four	5/13/92 5/14/92	8:30 7:47	7:39, 7:42	8:29 7:45	Thornton-EV3	Akers-EV4	2016	2014		1015	1008		1016	1015		2010	2011		1015	1016	1049 (S)	1036 (L)
48	50	102 - 12	None					Baker	Meade	2013	2017		1005	1013		1014	1013		2005	2013		1012	1017	1043 (L)	1035 (L)
49	46	104 - 12	None					Hoffman	Chang-Diaz	2018	2021		1014	1011		1011	1009		2007	2002		1011	1013	1034 (L)	1044 (L)
50	47	105 - 2	None					Apt	Davis	2022	2016		1009	1015		1010	1016		2014	2012		1015	1016	1029 (M)	1049 (S)
51	52	102 - 13	None					Shepherd	Jernigan	2017	2015		1013	1010		1013	1007		2013	2008		1012	1017	1048 (XL)	1045 (M)
52	53	103 - 15	None					Voss	Clifford	2014	2020		1008	1006		1015	1006		2011	2006		1006	1007	1036 (L)	1039 (L)
53	54	105 - 3	One	1/17/93	4:32:14	4:25:37	4:32:14	Harbaugh	Runco	2018	2015		1014	1010		1011	1007		2007	2008		1015	1016	1034 (L)	1051 (L)
54	56	103 - 16	None					Foale	Cockrell	2014	2022		1008	1009		1015	1010		2011	2014		1006	1007	1036 (L)	1029 (M)

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Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
55	55	102 - 14	None					Ross	Harris	2016	2013		1015	1005		1016	1014		2012	2005		1012	1017	1035 (L)	1047 (XL)
56	57	105 - 4	One	6/25/93	5:47:06	5:46:00	5:50:00	Low	Wisoff	2018	2020		1014	1006		1008	1006		2007	2006		1015	1016	1034 (L)	1039 (L)
57	51	103 - 17	One	9/16/93	7:08:00	7:03:08	7:05:26	Walz	Newman	2025	2023		1010	1003		1007	1004		2004	2014		1006	1007	1051 (L)	1043 (L)
58	58	102 - 15	None					Lucid	Wolf	2027	2013		1015	1005		1016	1014		2013	2005		1012	1017	1048 (XL)	1047 (XL)
59	61	105 - 5	Five	12/5/93 12/7/93	7:57:14 6:49:25	7:52:06 6:44:28	7:53:58 6:47:21	Hoffman	Musgrave	2014	2026		1008	1013		1015	1013		2010	2011		1015	1016	1039 (L)	1040 (L)
59	61	105 - 5	Five	12/9/93	Fifth EVA7: 23:01	7:19:16	7:21:00	Hoffman	Musgrave	2014	2026		1008	1013		1015	1013		2010	2011		1015	1016	1039 (L)	1040 (L)
59	61	105 - 5	Five	12/6/93 12/8/93	6:37:19 6:58:06	6:33:30 6:47:38	6:35:30 6:50:52	Thornton	Akers	2030	2029		1014	1009		1008	1010		2009	2008		1015	1016	1049 (S)	1036 (L)
60	60	103 - 18	None					Chang-Diaz	Davis	2025	2027		1010	1015		1007	1016		2004	2006		1006	1007	1051 (L)	1052 (S)
61	62	102 - 16	None					Thout	Gemar	2033	2032		1005	1003		1014	1006		2005	2014		1012	1015	1035 (L)	1047 (XL)
62	59	105 - 6	None					Godwin	Jones	2030	2014		1014	1008		1008	1015		2009	2010		1015	1016	1029	1039
63	65	102 - 17	None					Chiao	Thomas	2026	2033		1013	1005		1013	1014		2011	2055		1012	1017	1040 (L)	1035 (L)
64	64	103 - 19	One	9/16/94	6:54:02	6:49	6:51	Lee	Meade	2032	2029		1003	1009		1006	1018		2003	2011		1006	1007	1047	1036
65	68	105 - 7	None					Wisoff	Smith	2025	2030		1010	1014		1007	1008		2004	2009		1015	1016	1051	1043
66	66	104 - 13	None					Parazinski	Tanner	2031	2014		1006	1008		1010	1015		2007	2010		1011	1013	1034	1039

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Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
67	63	103 - 20	One	2/9/95	6:43	6:36	6:39	Foale	Harris	2029	2032		1009	1003		1018	1006		2011	2003		1006	1007	1036	1047
68	67	105 - 8	None					Jarnigan	Grunsfeld	2033	2039		1005	1013		1008	1013		2005	2006		1015	1016	1045	1038
69	71	104 - 14	None					Harbaugh	Baker	2038	2035		1008	1015		1015	1016		2010	2014		1008	1011	1039	1044
70	70	103 - 21	None					Thomas	Weber	2039	2040		1013	1014		1013	1017		2006	2009		1006	1007	1045	1043
71	69	105 - 9	One	9/16/95	6:54	6:43	6:46	Voss	Gernhardt	2042	2041		1009	1010		1018	1008		2011	2004		1016	1015	1040	1051
72	73	102 - 18	None					Lopez-Alegrio	Coleman	2032	2034		1003	1011		1017	1011		2003	2002		1017	1012	1048	1038
73	74	104 - 15	None					Ross	McArthur	2035	2038		1015	1008		1016	1015		2010	2005		1011	1008	1044	1039
74	72	105 - 10	Two	1/14/96	6:26	6:02	6:09	Barry	Chiao	2042	2041		1009	1010		1018	1008		2016	2014		1015	1016	1040	1051
74	72	105 - 10	Two	1/16/96	6:59	6:51	6:53	Chiao	Scott	2041	2043		1010	1006		1008	1013		2014	2007		1016	1016	1051	1036
75	75	102 - 19	None					Chang-Diaz	Nicollier	2040	2035		1014	1015		1009	1016		2009	2010		1017	1012	1043	1044
76	76	104 - 16	One	3/26/96	6:00	5:54	6:02	Godwin	Clifford	2039	2044		1013	1005		1017	1015		2011	2012		1011	1008	1045	1034
77	77	105 - 11	None					Runco	Bursch	2042	3003		1009	1003		1011	1008		2016	2006		1015	1016	1040	1029
78	78	102 - 20	None					Helms	Linnehan	3015	3010		1015	1010		1016	1013		2010	2014		1011	1012	1041	1051
79	79	104 - 17	None					Walz	Apt	3014	3011		1014	1011		1009	1015		2009	2005		1011	1008	1043	1033

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Seq.	STS			Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1	EV2
80	80	102 - 21	One					Jernigan	Jones	3013	3006	3015	1013	1006	1015	1011	1013	1016	2011	2007	2004	1017	1012	1045	1036
81	81	104 - 18	None					Wisoff	Grunsfeld	3010	3009		1010	1009		1009	1018		2014	2016		1008	1011	1051	1034
82	82	103 - 22	Three	2/13/97 2/15/97 2/17/97	6:49 7:13 5:27	6:40 7:10 4:14	6:42 7:11 5:17	Lee (EV1)	Smith (EV2)	3003	3008	3014	1003	1008	1014	1008	1017	1014	2012	2003	2009	1007	1006	1048	1047
82	82	103 - 22	Two	2/14/97 2/16/97	7:30 6:36	7:27 6:32	7:28 6:34	Harbaugh (EV3)	Tanner (EV4)	3014	3008	3003	1014	1008	1003	1004	1017	1008	2009	2003	2012	1007	1006	1043	1047
83	83	102 - 22	None					Gernhardt	Thomas	3011	3015		1011	1015		1006	1016		2005	2013		1017	1012	1040	1044
84	84	104 - 19	None					Clervoy	Lu	3006	3013		1006	1013		1013	1011		2004	2010		1011	1008	1038	1039
85	94	102 - 23	None					Gernhardt	Thomas	3011	3015		1011	1015		1006	1016		2005	2013		1017	1012	1040	1044
86	85	103 - 23	None					Curbeam	Robinson	3009	3017		1009	1017		1008	1018		2011	2007		1007	1006	1048	1051
87	86	104 - 20	One	10/1/97	4:59	4:59	5:01	Parazynski	Titov	3014	3008		1014	1008		1004	1017		2009	2016		1011	1008	1050	1047
88	87	102 - 24	Two	11/24/97 12/2/97	7:50 5:06	7:41 4:58	7:43 4:59	Scott	Doi	3017	3003		1017	1003		1018	1008		2007	2010		1017	1012	1051	1039
89	89	105 - 12	None					Reilly	Anderson	3013	3016		1013	1016		1011	1010		2015	2003		1016	1015	2003	2005
90	90	102 - 25	None					Linnehan	Williams	3017	3008		1017	1008		1018	1017		2005	2006		1017	1012	1051	1047
91	91	103 - 24	None					Chang	Kavandi	3011	3014		1011	1014		1009	1008		2012	2014		1007	1006	2006	2007
92	95	103 - 24	None					Robinson	Duque	3011	3010		1011	1010		1010	1009		2012	2010		1007	1006	2006	2013

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Seq.	STS	OV-/Flt		EVA	Date	Vacuum	Battery	Official	EV1	EV2	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	B/U	EV1	EV2	EV1
93	88	105 - 13	Three	12/7/98 12/9/98 12/12/98	7:21 7:14 7:01	7:21 7:01 7:01	7:21 7:02 6:59	Ross	Newman	3015	3013		1015	1013		1016	1011		2008	2013		1016	1015	1044	2003
93	88	105 - 13	Three						EV3 - Sturchow			3006			1006			1017			2011				