

## List of all rocket launches from Esrange Space Center

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
1	1966-11-19	23:42:36	Centaure 1	CK 01	C21/1	53.4	123.4
2	1966-11-29	01:06:39	Centaure 1	CK 01	C09/2	49.5	149.2
3	1966-11-30	22:04:16	Centaure 1	CK 01	C09/1	47.4	147.3
4	1967-02-04	23:53:31	Centaure 1	CK 02	C21/2	53.4	126
5	1967-02-16	07:37:15	Centaure 1	CK 02	C10/1	45.5	155
6	1967-02-22	07:12:25	Centaure 1	CK 02	C10/2	43	158
7	1967-04-07	19:57:00	Nike - Apache	KEM 001	K-NA1	23	228
8	1967-04-08	20:03:00	Nike - Apache	KEM 001	K-NA2	23	220
9	1967-04-09	01:00:00	Nike - Apache	KEM 001	K-NA3	23	230
10	1967-04-10	20:14:00	Nike - Apache	KEM 001	K-NA4	23	200
11	1967-04-11	20:21:00	Nike - Apache	KEM 001	K-NA5	23	220
12	1967-04-19	16:19:10	Centaure 2	CK 03	C24	67.8	122.5
13	1967-07-31	00:31:18	Centaure 2B	CK 04	C20/1	73.5	130
14	1967-07-31	00:58:23	Centaure 2B	CK 04	C32/1	71.5	128.5
15	1967-10-23	16:04:40	Nike - Apache	KEM 003	K-NA7	28.7	215.5
16	1967-11-24	01:37:10	Centaure 2B	CK 05	C13P	46.0	165
17	1967-11-26	20:44:22	Centaure 1	CK 05	C31/1	47	125
18	1967-12-05	20:34:50	Nike - Apache	KEM 002	K-NA6	27.2	203
19	1967-12-06	21:21:12	Centaure 1	CK 05	C31/2	47	129
20	1968-02-01	05:42:00	Centaure 2B	CK 06	C36/1	56.0	150
21	1968-02-04	05:33:05	Centaure 2B	CK 06	C36/2	55.0	146
22	1968-03-06	21:35:09	Centaure 2B	CK 06	C14P	64.0	155
23	1968-03-20	18:23:00	Nike - Apache	KEM 003	K-NA8	28.7	216
24	1968-03-23	18:35:00	Nike - Apache	KEM 003	K-NA9	28.7	200
25	1968-03-26	23:41:21	Raven 8	CK 06	S16/1	100	172
26	1968-04-06	01:15:46	Nike - Apache	KEM 003	K-NA10	28.7	
27	1968-05-20	15:15:20	Centaure 2B	CK 07	C42/1	77.0	135.5
28	1968-06-07	15:25:45	Centaure 2B	CK 07	C42/2	77.0	130.8
29	1968-06-08	21:01:16	Centaure 2B	CK 07	C32/2	76.0	142.3
30	1968-06-11	17:21:02	Nike - Apache	KEM 004	K-NA13	33.5	183
31	1968-06-12	22:59:00	Nike - Apache	KEM 004	K-NA12	33.5	178
32	1968-07-30	22:53:30	Centaure 2B	CK 08	C20/2	73.5	136.5
33	1968-08-12	12:04:00	Boosted Arcas 2	CK 07	A50/1	8.7	97
34	1968-08-25	16:40:50	Boosted Arcas 2	CK 07	A50/2	8.7	108.8
37	1968-10-08	11:42:57	Centaure 2B	CK 11	C35/1	69.0	139.8
35	1968-10-15	16:32:00	Centaure 2B	CK 12	C45/1	54.5	159.6

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
36	1968-10-24	20:50:00	Boosted Arcas 2	KEM 005 SSTG	SA1/1	7.9	103.8
38	1968-11-01	04:40:00	Centaure 2B	CK 12	C45/2	54.5	167
39	1968-11-19	01:38:30	Black Brant 3	KEM 006	K-B3-14	48	167
40	1968-11-25	00:41:50	Raven 8 + Cuckoo	CK 13	S43/1	137	211
41	1968-12-03	21:58:00	Black Brant 3	KEM 006	K-B3-16	48	165
42	1968-12-04	22:26:30	Black Brant 3	KEM 006	K-B3-15	48	170
43	1969-01-17	18:34:00	Nike - Cajun	KEM 007	SNC2A/1	32.7	115.5
44	1969-01-19	19:05:00	Nike - Cajun	KEM 007	SNC2B/2	50.8	75
45	1969-01-23	23:00:00	Nike - Cajun	KEM 007	SNC2A/3	32.7	114
46	1969-01-25	21:00:00	Nike - Cajun	KEM 007	SNC2A/4	32.7	118
47	1969-02-03	21:05:38	Petrel	KEM 008	P24K	19	155
48	1969-02-11	21:09:00	Petrel	KEM 008	P23K	18.5	157
49	1969-02-14	22:15:40	Petrel	KEM 008	P27K	19.5	148
50	1969-02-15	21:20:00	Petrel	KEM 008	P28K	19.5	146
51	1969-03-15	17:55:00	Nike - Apache	KEM 009	K-NA11	27	226
52	1969-03-15	20:45:15	Raven 8 + Cuckoo	CK 13	S43/2	137	210
53	1969-03-15	22:31:02	Centaure 2B	CK 17	C52/1	73.1	136
54	1969-03-16	18:05:00	Nike - Apache	KEM 009	K-NA17	24.5	
55	1969-03-17	00:04:50	Petrel	KEM 008	P29K	19	151
56	1969-03-17	18:10:00	Nike - Apache	KEM 009	K-NA18	26.8	235
57	1969-03-17	18:23:05	Petrel	KEM 008	P25K	18	148
58	1969-03-18	18:16:00	Petrel	KEM 008	P11K	18	170
59	1969-03-29	20:00:00	Petrel	KEM 008	P26K	18	150
60	1969-04-14	18:15:02	Centaure 2B	CK 09	C39/1	74	4.6
61	1969-04-15	11:03:20	Centaure 2B	CK 09	C39/2	74	133.8
62	1969-06-05	19:27:53	Centaure 2B	CK 15	C35/2	69.5	129.7
63	1969-08-11	21:30:00	Centaure 2B	CK 16	C51/1	63	145
64	1969-08-14	02:01:00	Centaure 2B	CK 16	C58/1	88.2	112
65	1969-10-05	22:28:10	Raven 8 + Cuckoo	CK 17	S29/1	120	225
66	1969-10-10	20:01:31	Centaure 2B	CK 14	C52/2	72.5	134.3
67	1969-10-17	22:26:40	Raven 8 + Cuckoo	CK 17	S29/2	120	225
68	1969-11-10	21:00:12	Raven 8 + Cuckoo	CK 17	S46/1	150	214
69	1969-11-27	05:29:00	Centaure 2B	CK 17	C62/1	59.2	160.3
70	1969-11-27	06:31:00	Centaure 2B	CK 17	C62/2	59.2	164.2
71	1970-01-05	14:23:00	Skua 1	KEM 010	UCL1	7.3	77.2
72	1970-01-07	14:26:18	Skua 1	KEM 010	UCL2	7.3	75
73	1970-01-09	14:44:00	Skua 1	KEM 010	UCL3	7.3	74
74	1970-01-12	14:39:00	Skua 1	KEM 010	UCL4	7.3	68.2

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
75	1970-01-14	14:40:00	Skua 1	KEM 010	UCL5	7.3	78
76	1970-01-17	14:46:00	Skua 1	KEM 010	UCL6	7.3	72
77	1970-01-19	15:01:00	Skua 1	KEM 010	UCL7	7.3	69.5
78	1970-01-21	15:00:00	Skua 1	KEM 010	UCL8	7.3	70.5
79	1970-01-23	15:06:00	Skua 1	KEM 010	UCL9	7.3	71
80	1970-01-26	15:18:00	Skua 1	KEM 010	UCL10	7.3	72.5
81	1970-01-28	15:18:00	Skua 1	KEM 010	UCL11	7.3	75
82	1970-01-30	15:27:00	Skua 1	KEM 010	UCL12	7.3	77.5
83	1970-02-04	05:26:00	Centaure 2B	CK 18	C57/1	54.0	172.5
84	1970-02-14	16:15:40	Raven 8 + Cuckoo	CK 18	S66/1	162	210
85	1970-02-23	16:49:40	Centaure 2B	CK 19	C37/1	38.0	210.2
86	1970-02-24	19:09:59	Raven 8 + Cuckoo	CK 19	S70/1	174	180
87	1970-02-25	16:33:03	Raven 8 + Cuckoo	CK 19	S61/1	141	215
88	1970-02-26	04:47:00	Raven 8 + Cuckoo	CK 19	S61/2	151	217
89	1970-03-19	02:30:50	Skua 2	KEM 011	SSK3/1	6.7	106
90	1970-03-19	03:23:30	Skua 2	KEM 011	SSK3/2	6.7	106
91	1970-03-19	03:56:40	Skua 2	KEM 011	SSK3/3	6.7	98
92	1970-03-19	04:28:50	Skua 2	KEM 011	SSK3/4	6.7	104
93	1970-03-19	05:18:00	Skua 2	KEM 011	SSK3/5	6.7	102
94	1970-04-02	01:46:00	Raven 8 + Cuckoo	CK 20	S66/2	162	197
95	1970-04-03	01:22:00	Centaure 2B	CK 20	C57/2	54.0	170.2
96	1970-04-04	19:12:00	Raven 8 + Cuckoo	CK 20	S28/1	154	207.5
97	1970-06-07	07:25:50	Centaure 2B	CK 21	C48/1B	52.5	163.8
98	1970-08-08	00:12:00	Nike - Apache	KEM 012	SNA5/1	76	
99	1970-08-08	00:48:10	Nike - Apache	KEM 012	SNA6/1	61	125
100	1970-08-08	01:32:00	Nike - Apache	KEM 012	SNA5/2	76	95
101	1970-08-08	02:54:00	Nike - Apache	KEM 012	SNA6/2	61	
102	1970-08-09	23:39:40	Centaure 2B	CK 22	C58/2	87.8	114.3
103	1970-08-09	23:40:10	Petrel	KEM 012	SP4	15	147
104	1970-08-10	00:50:00	Centaure 2B	CK 16	C51/2	64.5	153.9
105	1970-08-19	11:03:00	Centaure 2B	CK 23	C48/2	54.0	162.6
106	1970-10-28	20:34:22	Raven 8 + Cuckoo	CK 24	S67/1	125.5	227
107	1970-10-29	21:39:20	Raven 8 + Cuckoo	CK 24	S67/2	125.5	234
108	1971-01-08	15:02:00	Skua 2	CK 25	SK83/1	6.7	67
109	1971-01-15	15:25:00	Skua 2	CK 25	SK83/2	6.4	68.8
110	1971-01-17	14:48:10	Centaure 2B	CK 25	C37/2	37.4	211
111	1971-01-17	16:00:00	Skua 2	CK 25	SK83/3	6.4	34.2
112	1971-01-19	15:20:00	Skua 2	CK 25	SK83/4	6.3	71

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113	1971-01-21	15:07:26	Skua 2	CK 25	SK83/5	6.3	
114	1971-01-23	15:53:30	Skua 2	CK 25	SK83/6	6.3	
115	1971-01-25	12:38:30	Centaure 2B	CK 25	C60/1	56.0	175
116	1971-01-25	15:53:00	Skua 2	CK 25	SK83/7	6.3	68
117	1971-01-26	10:50:00	Centaure 2B	CK 25	C60/2	55.5	167
118	1971-01-26	13:22:15	Petrel	CK 25	P40	19.8	145
120	1971-01-26	23:02:45	Centaure 2B	CK 25	C78/1	72.5	140
119	1971-01-27	15:25:40	Skua 2	CK 25	SK83/8	6.4	47
121	1971-01-28	18:33:46	Raven 8 + Cuckoo	CK 25	S46/2	143	218
122	1971-01-29	15:21:00	Skua 2	CK 25	SK83/9	6.2	71
123	1971-01-31	16:45:00	Skua 2	CK 25	SK83/10	6.3	70
124	1971-02-03	18:12:00	Skua 2	CK 25	SK83/11	6.3	68
125	1971-02-08	20:48:17	Skua 2	CK 25	SK83/12	6.3	48
126	1971-02-09	18:00:00	Skua 2	CK 25	SK83/13	6.3	67
127	1971-02-11	17:50:00	Skua 2	CK 25	SK83/14	6.3	65
128	1971-02-12	17:30:00	Skua 2	CK 25	SK83/15	6.3	67
129	1971-03-02	21:14:20	Raven 8 + Cuckoo	CK 25	S16/2	157	204
130	1971-03-12	21:49:50	Petrel	KEM 013	P69K	16.2	153
131	1971-03-12	22:42:20	Petrel	KEM 013	P92K	16.2	
132	1971-03-15	17:55:16	Raven 8 + Cuckoo	CK 25	S87/1	170	188
133	1971-03-24	18:32:00	Raven 8 + Cuckoo	CK 25	S87/2	171	190
134	1971-04-05	23:53:50	Petrel	KEM 013	P68K	17.2	134
135	1971-04-14	22:27:10	Petrel	KEM 013	P61K	17.2	154
136	1971-04-15	00:30:30	Petrel	KEM 013	P66K	20	131
137	1971-04-16	05:25:10	Petrel	KEM 013	P62K	17.2	138
138	1971-04-21	18:59:20	Petrel	KEM 013	P64K	20.2	143
139	1971-04-21	21:42:50	Petrel	KEM 013	P67K	20	128
140	1971-04-21	23:03:30	Petrel	KEM 013	P63K	18	165
141	1971-04-24	23:35:55	Petrel	KEM 013	P54K	18	162
142	1971-05-01	23:36:30	Petrel	KEM 013	P65K	20.2	146
143	1971-07-31	00:21:00	Centaure 2C	CK 26	C59/1	82.8	120
144	1971-07-31	00:44:54	Nike - Apache	NASA CK 1	NNA1	70.8	114
145	1971-07-31	23:34:00	Nike - Apache	NASA CK 1	NNA2	70.8	106
146	1971-08-01	00:09:00	Centaure 2C	CK 26	C59/2	83.1	119
147	1971-11-22	20:07:40	Centaure 2B	CK 27	C78/2	72.8	138.4
148	1971-11-25	17:13:05	Raven 8 + Cuckoo	CK 27	S70/2	196	171.5
149	1972-01-21	19:02:20	Centaure 2C	CK 28	C76/1	75.8	130
150	1972-01-22	00:58:30	Centaure 2C	CK 28	C76/2	75.8	131

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
151	1972-02-07	23:33:34	Nike - Tomahawk	KEM 014	SNT7/1	128.7	180
152	1972-03-02	22:26:50	Raven 8 + Goldfinch	CK 28	S77/1	200	229
153	1972-09-24	21:50:00	Raven 8 + Goldfinch	CK 29	S77/2	200	227
154	1972-10-08	16:10:00	Nike - Apache	NASA CK 02	NNA3	70.8	109.4
155	1972-10-09	15:30:00	Nike - Apache	NASA CK 02	NNA4	70.8	108.7
156	1972-10-12	15:33:30	Nike - Apache	NASA CK 02	NNA5	70.8	109
157	1972-10-13	00:28:15	Raven 8 + Cuckoo	CK 29	S105	160	207
158	1973-02-09	00:54:02	Nike - Tomahawk	SSC CK 06	SNT7/2	132.5	182
159	1973-08-01	22:17:50	Nike - Apache	NASA CK 03	NNA6	70.8	109
160	1973-08-01	22:48:39	Nike - Apache	NASA CK 03	NNA7	70.8	111
161	1973-08-02	05:35:45	Nike - Cajun	NASA CK 03	NNC10	70.1	88
162	1973-08-04	08:10:00	Raven 8 + Goldfinch	SSC CK 2	ER1	195	7
163	1973-08-05	23:42:36	Nike - Apache	NASA CK 03	NNA9	63.5	123
164	1973-08-06	00:08:25	Nike - Apache	NASA CK 03	NNA8	70.8	102.7
165	1974-02-20	17:01:16	Centaure 2C	SSC CK 6	C111/1	65	154.5
166	1974-02-20	18:07:00	Nike - Tomahawk	SSC CK 6	S10/2	95	235.3
167	1974-02-20	18:22:22	Centaure 2C	SSC CK 6	C111/2	65	151.8
168	1974-02-20	19:07:00	Nike - Tomahawk	SSC CK 6	S10/1	95	235
169	1974-08-18	08:59:36	Nike - Cajun	NTNF CK 1	F36 (FERDINAND)	49	106.1
170	1975-03-05	16:36:18	Nike - Apache	SSC CK 7	S16/2	72.3	2
171	1975-03-07	00:22:55	Centaure 2C	SSC CK 7	S13	102	108
172	1975-03-13	17:02:00	Nike - Apache	SSC CK 7	S16/1	69.7	104.3
173	1975-11-21	16:37:36	Nike - Apache	SSC T1	T1	63.0	130.5
174	1976-01-22	18:58:36	Nike - Tomahawk	SSC CK 8	S17/1 (EF8)	105	208
175	1976-01-27	17:30:00	Raven 8 + Goldfinch	DFVLR CK 1	TP1	120	
176	1976-02-21	19:42:32	Nike - Apache	SSC CK 8	S18/1	76.0	104.6
177	1976-03-02	23:49:30	Nike - Apache	SSC CK 8	S21/1 (TRIGGER)	47.0	160
178	1976-03-06	21:00:16	Nike - Tomahawk	SSC CK 8	S17/2	105	210
179	1976-03-30	20:27:00	Aries		PORCUPINE F1	587	362
180	1977-01-15	00:50:02	Nike - Apache	SSC CK 9	S18/2	76.0	104
181	1977-02-08	17:58:20	Raven 6 + Cuckoo	SSC CK 9	S22	227	212.4
182	1977-02-11	20:49:07	Nike - Tomahawk	SSC CK 9	S21/3 (Big Trigger)	104	199.9
183	1977-02-11	20:50:45	Super Arcas	SSC CK 9	AR1	6.1	80.1
184	1977-02-15	18:48:10	Nike - Apache	SSC CK 9	S21/2 (Little Trigger)	47.0	165.5
185	1977-02-15	18:48:20	Super Arcas	SSC CK 9	AR2	6.1	85
186	1977-03-14	17:38:00	Nike - Apache	DFVLR CK 3	K-NA 83 (FIREFLY)	23.4	240
187	1977-03-20	19:22:00	Aries	DFVLR CK 3	PORCUPINE F2	591	458.1
188	1977-10-21	08:49:00	Nike - Black Brant 5C	SSC CK 10	S19B	233.7	374.3

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189	1977-12-13	08:46:39	Raven 11 + Goldfinch	DFVLR CK 4 / TEXUS 1	TEXUS 1	330	264.6
190	1978-04-13	19:22:56	Nike - Orion	SSC CK 11	S27 (TWILIGHT)	119.4	153.4
191	1978-07-30	22:41:18	Petrel	SSC CK 12	AL P205K	18.9	149.3
192	1978-07-30	23:12:30	Petrel	SSC CK 12	MPI-1	23	126.8
193	1978-07-30	23:13:00	Nike - Orion	SSC CK 12	SSC S32	138	134.2
194	1978-07-30	23:33:13	Skylark 1	SSC CK 12	SSC S26-1	183.4	114.2
195	1978-08-13	00:26:57	Petrel	SSC CK 12	MPI-2	23	129
196	1978-08-13	00:58:15	Petrel	SSC CK 12	AL P206K	18.9	150.3
197	1978-08-13	23:38:17	Skylark 1	SSC CK 12	SSC S26-2	183.4	126.3
198	1978-09-13	19:36:00	Orion	DFVLR CK05	ORION 1	47.5	61.9
199	1978-11-16	07:49:00	Skylark 7	TEXUS 2	TEXUS 2	360.5	264.8
200	1979-01-25	21:07:33	Petrel 2	SSC CK 13	AL P216K	19.2	179
201	1979-01-27	17:12:32	Black Brant 5C	SSC CK 13	SSC S23/L-1	221.4	267.5
202	1979-01-27	20:04:55	Petrel 2	SSC CK 13	AL P215K	19.2	183.2
203	1979-01-27	21:01:59	Nike - Black Brant 5C	SSC CK 13	SSC S23H	187.8	413.1
204	1979-01-27	21:52:20	Black Brant 5C	SSC CK 13	SSC S23/L-2	221.4	267.5
205	1979-03-19	22:57:00	Aries	DFVLR CK 5	PORCUPINE F3	580.9	464
206	1979-03-31	22:29:00	Aries	DFVLR CK 5	PORCUPINE F4	580.9	452
207	1979-08-14	18:10:00	Nike	SSC CK 15	SSC T3		11
208	1979-08-21	01:14:16	Nike - Orion	SSC CK 15	SSC S27B(Twilight B)	119.4	153.8
209	1979-09-24	20:20:10	Nike - Black Brant 5C	SSC CK 14	SSC S29	198	396.1
210	1980-04-28	07:10:02	Skylark 7	TEXUS 3	TEXUS 3	369	253.3
211	1980-07-26	23:38:00	Petrel 2	VLF-80	P223K	20.6	166.2
212	1980-11-07	22:00:00	Super Loki	ENERGY BUDGET	E9B		85
213	1980-11-07	22:50:00	Super Loki 12 A	ENERGY BUDGET	E9A		104
214	1980-11-10	00:10:00	Super Loki	ENERGY BUDGET	E9B		85
215	1980-11-10	01:00:00	Super Loki	ENERGY BUDGET	E9A		104
216	1980-11-10	02:18:00	Super Loki	ENERGY BUDGET	E9A		104
217	1980-11-10	22:00:00	Super Loki	ENERGY BUDGET	E9B		85
218	1980-11-10	23:46:00	Super Loki	ENERGY BUDGET	E9A		104
219	1980-11-11	00:12:00	Petrel 2	ENERGY BUDGET	E5		171
220	1980-11-11	00:27:00	Nike - Orion	ENERGY BUDGET	E6C		198
221	1980-11-11	01:01:30	Super Loki	ENERGY BUDGET	E9A		104
222	1980-11-11	01:21:30	Skua 2	ENERGY BUDGET	E7		97
223	1980-11-11	01:55:30	Super Loki	ENERGY BUDGET	E9A		104
224	1980-11-11	02:26:30	Super Loki	ENERGY BUDGET	E9B		85
225	1980-11-12	00:20:30	Super Loki	ENERGY BUDGET	E9B		85
226	1980-11-12	01:07:00	Super Loki	ENERGY BUDGET	E9A		104

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
227	1980-11-15	22:35:30	Super Loki	ENERGY BUDGET	E9B		85
228	1980-11-16	03:13:00	Skylark 7	ENERGY BUDGET	E2		230
229	1980-11-16	03:14:18	Petrel 2	ENERGY BUDGET	E5		174
230	1980-11-16	03:49:40	Taurus - Orion	ENERGY BUDGET	E11A		178
231	1980-11-16	04:15:00	Taurus - Orion	ENERGY BUDGET	E11B		178
232	1980-11-16	04:47:00	Nike - Orion	ENERGY BUDGET	E6A		168
233	1980-11-16	05:12:30	Super Loki	ENERGY BUDGET	E9A		104
234	1980-11-16	05:37:30	Skua 2	ENERGY BUDGET	E7		96
235	1980-11-16	06:33:00	Super Loki	ENERGY BUDGET	E9B		85
236	1980-11-16	07:22:00	Super Loki	ENERGY BUDGET	E9A		104
237	1980-11-16	07:51:30	Super Loki	ENERGY BUDGET	E9A		104
238	1980-11-16	08:23:00	Super Loki	ENERGY BUDGET	E9B		85
239	1980-11-27	22:45:30	Super Loki	ENERGY BUDGET	E9B		85
240	1980-11-28	00:47:00	Super Loki	ENERGY BUDGET	E9A		104
241	1980-11-28	03:29:00	Super Loki	ENERGY BUDGET	E9A		104
242	1980-11-28	04:19:10	Super Loki	ENERGY BUDGET	E9B		85
243	1980-11-30	23:44:30	Taurus - Orion	ENERGY BUDGET	E11A		171
244	1980-11-30	23:45:30	Petrel 2	ENERGY BUDGET	E5		169
245	1980-12-01	00:09:00	Nike - Orion	ENERGY BUDGET	E6A		161
246	1980-12-01	00:24:00	Super Loki	ENERGY BUDGET	E9A		104
247	1980-12-01	01:23:40	Nike - Orion	ENERGY BUDGET	E6B		172
248	1980-12-01	01:39:00	Super Loki	ENERGY BUDGET	E9A		104
249	1980-12-01	02:09:30	Skua 2	ENERGY BUDGET	E7		92
250	1980-12-01	02:33:30	Super Loki	ENERGY BUDGET	E9B		85
251	1980-12-01	03:24:00	Super Loki	ENERGY BUDGET	E9B		85
252	1981-02-07	20:13:45	Petrel 2	OXYGEN	P219K	19.9	170.7
253	1981-02-07	20:30:40	Nike - Orion	OXYGEN	S35	135	144.5
254	1981-04-30	06:00:00	Skylark 7	DFVLR CK 9 / TEXUS 3B/4	TEXUS 3B	374	252.7
255	1981-05-08	05:27:00	Skylark 7	DFVLR CK 9 / TEXUS 3B/4	TEXUS 4	366	259.9
256	1981-09-30	23:20:00	Nike - Black Brant 5C	PIRAT	S33 PIRAT	333.5	269.5
257	1981-11-14	09:15:00	Orion	ENERGY BUDGET 2	STRAFAM 1/1	87	60.5
258	1981-12-01	15:50:00	Petrel 2	P224K	P224K	18.9	187.2
259	1981-12-09	17:17:00	Petrel 2	P225K	P225K	18.9	187.9
260	1981-12-09	21:25:35	Skylark 7	ENERGY BUDGET 2	E2	390	237
261	1981-12-09	22:01:59	Skua 4	ENERGY BUDGET 2	E8	12.2	70.3
262	1981-12-09	22:55:30	Skua 2	ENERGY BUDGET 2	E7	6.2	94.5
263	1981-12-16	14:10:00	Petrel 2	P226K	P226K LITHIUM	17.7	186.5
264	1982-04-29	05:20:00	Skylark 7	DFVLR CK 10 / TEXUS 5/6	TEXUS 5	373	256.2

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
265	1982-05-08	05:30:00	Skylark 7	DFVLR CK 10 / TEXUS 5/6	TEXUS 6	375	255.7
266	1982-08-03	23:02:00	Nike - Orion	CAMP	CAMP-N		119
267	1982-08-03	23:19:10	Nike - Orion	CAMP	STRAFAM 1/2		114
268	1982-08-03	23:32:00	Nike - Orion	CAMP	CAMP-P		118
269	1982-08-03	23:48:30	Nike - Orion	CAMP	SOAP-1		134
270	1982-08-04	00:03:00	Petrel 1	CAMP	P235K		140
271	1982-08-04	00:16:00	Nike - Orion	CAMP	TAD		153
272	1982-08-04	00:31:30	Super Loki	CAMP	SuLo 11/1	6.2	84
273	1982-08-11	23:30:00	Petrel 1	CAMP	P214K		129
274	1982-08-12	00:30:15	Nike - Orion	CAMP	SOAP-2		135
275	1982-08-12	00:44:00	Super Loki	CAMP	SuLo 11/2	6.2	84
276	1983-01-19	23:12:38	Terrier-Black Brant 5C	AURELD HIGH	S36 (AURELD HIGH)	163.2	495
277	1983-04-27	05:30:00	Orion	DFVLR CK 11 / TEXUS 7/8	STRAFAM 1/3	87	58.2
278	1983-05-05	05:05:00	Skylark 7	DFVLR CK 11 / TEXUS 7/8	TEXUS 7	376	226.7
279	1983-05-13	11:37:00	Skylark 7	DFVLR CK 11 / TEXUS 7/8	TEXUS 8	353	263.5
280	1983-09-19	05:59:00	OTRAG 1-3-B	DFVLR CK 12 / OTRAG-1	OTR-1	54.6	4.2
281	1984-01-31	19:15:00	Nike - Orion	MAP-WINE	SOAP/WINE 1	122	149.3
282	1984-01-31	21:05:36	Orion	MAP-WINE	STRAFAM 1/4	90	57.7
283	1984-02-10	03:00:00	Nike - Orion	MAP-WINE	SOAP/WINE 2	122	148.3
284	1984-02-10	04:12:00	Skylark 6	MAP-WINE	MI 1	369	178.5
285	1984-05-03	04:13:00	Skylark 7	TEXUS 9/10	TEXUS 9	361	258
286	1984-05-15	07:46:00	Skylark 7	TEXUS 9/10	TEXUS 10	377	241.6
287	1984-10-24	16:58:20	Black Brant 5C	TOR	S38 (TOR)	339	188.4
288	1985-04-27	04:15:00	Skylark 7	TEXUS 11/12	TEXUS 11	350.5	266.3
289	1985-05-06	04:35:00	Skylark 7	TEXUS 11/12	TEXUS 12	365	252.6
290	1985-05-14	04:00:00	Orion	STRAFAM 1/5	STRAFAM 1/5	93	56.4
291	1986-05-01	04:40:00	Skylark 7	TEXUS 13/14	TEXUS 13	379.9	246.4
292	1986-05-12	04:55:00	Skylark 7	TEXUS 13/14	TEXUS 14	365.8	250.1
293	1986-07-26	22:14:30	Super Loki 12 A	MAED	Robin Sphere	6.2	115.6
294	1986-07-26	22:37:20	Nike - Orion	MAED	31.057	194	101
295	1986-07-26	23:03:00	Nike - Orion	MAED	31.060	206.8	99
296	1986-07-26	23:28:10	Super Loki 12 A	MAED	Robin Sphere	6.2	109.9
297	1986-07-26	23:44:40	Nike - Orion	MAED	31.061	241	
298	1986-07-27	00:06:00	Super Loki 12 A	MAED	Robin Sphere	6.2	110.3
299	1986-07-27	00:50:00	Super Loki 12 A	MAED	Robin Sphere	6.2	117.9
300	1986-07-27	22:14:30	Super Loki 12 A	MAED	Robin Sphere	6.2	120.1
301	1986-07-27	23:16:00	Super Loki 12 A	MAED	Robin Sphere	6.2	117.4
302	1986-11-04	20:44:01	Taurus - Orion	AURELD VIP	S41H	116.3	205.7



Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
303	1986-12-12	20:21:36	Taurus - Orion	AURELD VIP	S41L	145.7	184.8
304	1987-02-17	10:43:00	Orion	CHEOPS 1	STRAFAM 2/1	87	59.0
305	1987-03-19	10:00:00	Terrier-Black Brant 5B	MASER 1	MASER 1	391.1	295.3
306	1987-05-03	03:59:59	Skylark 7	TEXUS 14B/15 / RASMUS 1	TEXUS 14B	372.7	251.7
307	1987-05-06	05:08:00	Orion	TEXUS 14B/15 / RASMUS 1	RASMUS 1	85	61.1
308	1987-05-09	04:00:00	Skylark 7	TEXUS 14B/15 / RASMUS 1	TEXUS 15	379.1	-
309	1987-11-23	09:10:00	Skylark 7	TEXUS 16	TEXUS 16	379.7	-
310	1988-02-29	08:34:30	Terrier-Black Brant 5C	MASER 2	MASER 2	355.6	317.8
311	1988-04-09	00:40:52	Black Brant 5B	ERRRIS	NASA 21.097	560	127.6
312	1988-05-02	04:00:00	Nike - Black Brant 5B	TEXUS 17/18 / BAE 1	TEXUS 17	347	285.1
313	1988-05-06	04:30:00	Nike - Black Brant 5B	TEXUS 17/18 / BAE 1	TEXUS 18	368.8	265.2
314	1988-05-09	09:05:00	Skylark 7	TEXUS 17/18 / BAE 1	BAE 1	361.2	262.4
315	1988-11-28	08:20:10	Skylark 7	TEXUS 19/20	TEXUS 19	385	243.6
316	1988-12-02	10:05:00	Skylark 7	TEXUS 19/20	TEXUS 20	380	237.7
317	1988-12-06	10:02:00	Orion	RASMUS 2	RASMUS 2	85	65.4
318	1989-01-30	08:30:00	Orion	STRAFAM 2/2	STRAFAM 2/2	87	65.7
319	1989-02-07	23:36:30	Skylark 2	ROSE 2/4	ROSE F3	303	124.4
320	1989-02-09	23:42:00	Skylark 2	ROSE 2/4	ROSE F4	303	123.3
321	1989-03-03	18:17:14	Black Brant 5B	ERRRIS 2	NASA 21.100	558.5	123.8
322	1989-03-04	01:02:47	Black Brant 5C	ERRRIS 2	NASA 21.096	371	175.5
323	1989-04-10	08:21:00	Terrier-Black Brant 5C	MASER 3	MASER 3	383.1	297.2
324	1989-04-30	03:48:00	Skylark 7	TEXUS 21/22	TEXUS 21	332.7	267.6
325	1989-05-03	03:30:00	Skylark 7	TEXUS 21/22	TEXUS 22	410.5	223.2
326	1989-11-25	08:05:00	Skylark 7	TEXUS 23/24	TEXUS 23	363.7	249.1
327	1989-12-06	08:11:08	Skylark 7	TEXUS 23/24	TEXUS 24	375.9	243.9
328	1990-01-25	08:50:00	Orion	CHEOPS 3 / STRAFAM 2/3	STRAFAM 2/3	108	-
329	1990-02-20	09:41:00	Nike - Orion	AURORA 90	ANODE	136.2	138
330	1990-02-25	23:21:20	Nike - Orion	AURORA 90	ATOMIC 1	136.4	133.1
331	1990-02-28	00:51:59	Nike - Orion	AURORA 90	ATOMIC 2	133.6	139.2
332	1990-03-06	03:26:00	Super Loki	SISSI 1 / RASMUS 3	SISSI So1	6.2	-
333	1990-03-06	04:41:00	Skylark 6	SISSI 1 / RASMUS 3	SISSI F1	338	178.2
334	1990-03-06	08:30:00	Improved Orion	SISSI 1 / RASMUS 3	RASMUS 3	85	79
335	1990-03-29	08:07:00	Terrier-Black Brant 5B	MASER 4	MASER 4	362.5	317.4
336	1990-05-13	03:52:00	Skylark 7	TEXUS 25/26	TEXUS 25	385.3	233.9
337	1990-05-15	02:45:00	Skylark 7	TEXUS 25/26	TEXUS 26	381.3	234.8

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
338	1990-05-29	05:09:00	Nike - Orion	SPIN-RAC-TEST	SPIN-RAC-TEST	136.8	107
339	1990-07-25	21:00:00	Super Loki	SISSI 2	Robin Dart	7.7	81.1
340	1990-07-26	22:05:00	Super Loki	SISSI 2	Robin Dart	7.7	81.3
341	1990-07-26	23:05:00	Skylark 6	SISSI 2	SISSI F2/FE1	361	167.8
342	1990-07-26	23:25:00	Viper 3A	SISSI 2	Robin Sphere	6.2	114.9
343	1990-07-26	23:55:00	Super Loki	SISSI 2	Robin Dart	7.7	83.5
344	1990-08-02	22:40:00	Skylark 7	SISSI 2	SISSI F3/FE2	361	238.5
345	1990-08-02	23:01:00	Viper 3A	SISSI 2	Robin Sphere	6.2	117.6
346	1990-08-02	23:46:00	Super Loki	SISSI 2	Robin Dart	7.7	39.1
347	1990-11-15	07:05:00	Skylark 7	TEXUS 27	TEXUS 27	360.2	248.6
348	1990-11-25	05:27:00	Skylark 12	MAXUS test	TEST-MAXUS	208	534
349	1991-02-03	11:30:00	Orion	STRAFAM 3/1	STRAFAM 3/1		57.5
350	1991-04-09	03:41:00	Orion	RASMUS 4	RASMUS 4	85	64.6
351	1991-04-09	17:38:00	Super Loki	SISSI 3	SISSI So5	7.7	72.4
352	1991-04-09	18:18:00	Viper 3A	SISSI 3	SISSI RDI	6.1	
353	1991-04-09	18:49:59	Skylark 7	SISSI 3	SISSI F4	361	245
354	1991-04-09	19:20:00	Viper 3A	SISSI 3	SISSI RD2	6.1	
355	1991-04-09	19:50:00	Super Loki	SISSI 3	SISSI So6	7.7	
356	1991-04-09	20:41:00	Super Loki	SISSI 3	SISSI So7	7.7	87.1
357	1991-05-08	03:54:00	Castor 4B	MAXUS 1	MAXUS 1		157.2
358	1991-08-01	01:03:00	Viper 3A	NLC 91	Viper Sphere	6.1	111.7
359	1991-08-01	01:28:00	Super Arcas	NLC 91	MISTI B	4.6	87.8
360	1991-08-01	01:28:20	Black Brant 5C	NLC 91	E-FIELD B	630.5	99.2
361	1991-08-01	01:39:00	Nike - Orion	NLC 91	PEP B	227.7	92.9
362	1991-08-01	01:40:00	Nike - Orion	NLC 91	TURBO B	150	130.5
363	1991-08-01	01:54:00	Viper 3A	NLC 91	Viper Sphere	6.1	110.9
364	1991-08-01	02:24:00	Viper 3A	NLC 91	Viper Chaff		115.4
365	1991-08-01	02:39:00	Viper 3A	NLC 91	Viper Sphere	6.1	111.8
366	1991-08-05	23:21:00	Super Arcas	NLC 91	MISTI C	4.6	88.3
367	1991-08-05	23:32:00	Viper 3A	NLC 91	Viper Sphere	6.1	113.3
368	1991-08-09	22:39:00	Viper 3A	NLC 91	Viper Sphere	6.1	5.5
369	1991-08-09	22:53:00	Viper 3A	NLC 91	Viper Sphere	6.1	114.9
370	1991-08-09	23:15:00	Nike - Orion	NLC 91	TURBO A	150	89
371	1991-08-09	23:15:15	Nike - Orion	NLC 91	DECIMAL A	190.1	89.4
372	1991-08-09	23:30:00	Super Arcas	NLC 91	MISTI A	4.6	
373	1991-08-09	23:30:20	Black Brant 5B	NLC 91	E-FIELD A	630.5	100.8
374	1991-08-09	23:40:00	Nike - Orion	NLC 91	PEP A	227.7	97
375	1991-08-10	00:06:00	Viper 3A	NLC 91	Viper Sphere	6.1	101.2

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
376	1991-08-10	00:24:00	Viper 3A	NLC 91	Viper Chaff		
377	1991-08-10	01:37:00	Nike - Orion	NLC 91	DECIMAL B	149.6	117.2
378	1991-08-10	01:42:00	Viper 3A	NLC 91	Viper Chaff		117.1
379	1991-11-23	09:40:00	Skylark 7	TEXUS 28	TEXUS 28	381.1	238.9
380	1992-04-09	10:40:00	Terrier-Black Brant 5C	MASER 5	MASER 5	486	309.1
381	1992-08-18	09:20:00	Nike - Improved Orion	MT-test	NIKE ORION 2		91.1
382	1992-11-08	10:25:00	Castor 4B	MAXUS 1B	MAXUS 1B		716.6
383	1992-11-22	09:22:00	Skylark 7	TEXUS 29	TEXUS 29	397	229.5
384	1993-05-01	05:35:00	Skylark 7	TEXUS 30	TEXUS 30	378.1	224
385	1993-07-28	05:43:00	Viper 3A	NLC 93	Viper Sphere		115.7
386	1993-07-30	06:19:00	Viper 3A	NLC 93	Viper Sphere		115.9
387	1993-08-02	00:23:00	Nike - Orion	NLC 93	DECIMAL A		98.2
388	1993-08-02	00:37:00	Viper 3A	NLC 93	Viper Sphere		109.7
389	1993-08-02	01:02:00	Nike - Orion	NLC 93	DECIMAL B		104.6
390	1993-08-02	01:24:00	Viper 3A	NLC 93	Viper Sphere		105.5
391	1993-08-02	03:24:00	Viper 3A	NLC 93	Viper Sphere		106
392	1993-08-02	05:54:00	Viper 3A	NLC 93	Viper Sphere		107.2
393	1993-11-04	07:07:00	Skylark 7	MASER 6	MASER 6	382	243.1
394	1993-11-26	11:00:00	Skylark 7	TEXUS 31 / MT-1	TEXUS 31	346.4	257.2
395	1993-11-29	09:30:00	Nike - Improved Orion	TEXUS 31 / MT-1	MT-1	160.0	145.5
396	1994-02-19	09:27:00	Orion	RASMUS 5	RASMUS 5	103	3
397	1994-05-03	07:40:00	Nike - Improved Orion	TEXUS 32 / MT-2	MT-2	162.0	138.7
398	1994-05-05	04:15:00	Skylark 7	TEXUS 32 / MT-2	TEXUS 32	390.1	238.8
399	1994-11-30	10:30:00	Skylark 7	TEXUS 33	TEXUS 33	353.1	263.4
400	1994-12-05	00:48:00	Improved Orion	HYGROSOND	HYGROSOND	122	77.1
401	1995-04-29	05:55:00	Nike - Improved Orion	MT-3 / MT-4	MT-4	162.5	148
402	1995-05-02	05:35:00	Nike - Improved Orion	MT-3 / MT-4	MT-3	200.5	125
403	1995-07-14	07:50:00	Orion	TESTORION 1	TESTORION 1	70	6.5
404	1995-10-08	10:36:00	Orion	TESTORION 2	TESTORION 2	70	74.0
405	1995-11-28	09:42:00	Castor 4B	MAXUS 2	MAXUS 2		705.8
406	1995-12-04	10:23:00	Improved Orion	REXUS	REXUS	103	89.4
407	1996-03-02	10:00:00	Skylark 7	TEXUS 34	TEXUS 34	392.1	231.9
408	1996-05-03	04:16:00	Skylark 7	MASER 7	MASER 7	354.9	251.9
409	1996-11-24	11:05:00	Skylark 7	TEXUS 35	TEXUS 35	331	267.3
410	1997-06-04	09:00:00	Improved Orion	GYRO-test	GYRO-test	105	92.7
411	1998-01-26	12:26:00	Nike - Improved Orion	MERMAID	MERMAID		
412	1998-02-07	07:40:00	Skylark 7	TEXUS 36/MT-5	TEXUS 36		238.2
413	1998-02-11	09:42:00	Nike - Improved Orion	TEXUS 36/MT-5	MT-5		

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
414	1998-03-03	22:33:00	Nike - Improved Orion	NLTE	NLTE green	218	133.6
415	1998-03-06	21:26:00	Nike - Improved Orion	NLTE	NLTE red	218	133.7
416	1998-03-07	00:33:00	Super Loki	NLTE	Super Loki Chaff		
417	1998-03-07	01:24:00	Super Loki	NLTE	Super Loki Chaff		
418	1998-10-07	11:35:00	Orion	MAXUS test	MAXUS test	105	55.5
419	1998-10-07	13:35:00	FFAR	MAXUS test			
420	1998-11-24	09:53:00	Castor 4B	MAXUS 3	MAXUS 3	797.8	713
421	1998-12-03	11:04:00	Nike - Improved Orion	MT-6	MT-6		
422	1999-05-14	11:33:00	Skylark 7	MASER 8	MASER 8		261
423	1999-07-27	21:47:50	Black Brant	ICON	ICON		104.1
424	2000-03-27	11:17:00	Skylark 7	TEXUS 37	TEXUS 37		245.3
425	2000-04-02	07:34:00	Skylark 7	TEXUS 38	TEXUS 38		250.3
426	2001-02-19	06:02:00	Improved Orion	Maxus 4-Test		109.4	81.4
427	2001-04-29	11:28:00	Castor 4B	MAXUS 4	MAXUS 4	803.4	703.8
428	2001-05-08	09:55:00	Skylark 7	TEXUS 39	TEXUS 39		248
429	2001-12-15	10:20:30	Super Loki	Hygrosonde 2	Wind measurement		
430	2001-12-15	11:53:30	Super Loki	Hygrosonde 2	Wind measurement		
431	2001-12-16	03:11:30	Super Loki	Hygrosonde 2	Wind measurement		
432	2001-12-16	05:12:00	Improved Orion	Hygrosonde 2	Hygrosonde		
433	2001-12-16	05:43:00	Super Loki	Hygrosonde 2	Wind measurement		
434	2001-12-16	06:18:00	Super Loki	Hygrosonde 2	Wind measurement		
435	2002-03-16	09:37:00	Skylark 7	MASER 9	MASER 9		
436	2003-01-13	13:08:00	Super Loki	SAGE/MaCWave	Test rocket 1		
437	2003-01-13	14:49:00	Super Loki	SAGE/MaCWave	Test rocket 2		
438	2003-01-14	13:00:00	Super Loki	SAGE/MaCWave	Test rocket 3		
439	2003-01-14	14:00:00	Super Loki	SAGE/MaCWave	Test rocket 4		
440	2003-01-15	13:02:00	Super Loki	SAGE/MaCWave	Wind measurement 1		109.5
441	2003-01-16	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 2		115.9
442	2003-01-17	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 3		111.6
443	2003-01-18	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 4		117.1
444	2003-01-19	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 5		117.9
445	2003-01-21	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 6		112.7
446	2003-01-22	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 7		112.2
447	2003-01-22	13:35:00	Super Loki	SAGE/MaCWave	Wind measurement 8		
448	2003-01-23	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 9		113.4
449	2003-01-23	13:15:00	Super Loki	SAGE/MaCWave	Wind measurement 10		
450	2003-01-23	13:50:00	Super Loki	SAGE/MaCWave	Wind measurement 11		89.1
451	2003-01-24	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 12		

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
452	2003-01-24	13:11:00	Super Loki	SAGE/MaCWave	Wind measurement 13		106.8
453	2003-01-24	14:03:00	Super Loki	SAGE/MaCWave	Wind measurement 14		103.3
454	2003-01-24	15:05:00	Super Loki	SAGE/MaCWave	Wind measurement 15		110.2
455	2003-01-24	16:00:00	Super Loki	SAGE/MaCWave	Wind measurement 16		105.7
456	2003-01-24	17:00:00	Super Loki	SAGE/MaCWave	Wind measurement 17		114.3
457	2003-01-24	18:00:00	Super Loki	SAGE/MaCWave	Wind measurement 18		115.4
458	2003-01-24	19:01:00	Super Loki	SAGE/MaCWave	Wind measurement 19		105.6
459	2003-01-24	20:00:00	Super Loki	SAGE/MaCWave	Wind measurement 20		109.1
460	2003-01-24	20:50:00	Terrier-Orion	SAGE/MaCWave	MaCWAVE		131.1
461	2003-01-24	21:02:00	Super Loki	SAGE/MaCWave	Wind measurement 21		112.5
462	2003-01-24	22:00:00	Super Loki	SAGE/MaCWave	Wind measurement 22		105.6
463	2003-01-24	23:00:00	Super Loki	SAGE/MaCWave	Wind measurement 23		90.6
464	2003-01-25	00:00:00	Super Loki	SAGE/MaCWave	Wind measurement 24		116.6
465	2003-01-25	00:58:00	Super Loki	SAGE/MaCWave	Wind measurement 25		114.4
466	2003-01-26	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 26		110.9
467	2003-01-27	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 27		119.7
468	2003-01-27	15:05:00	Super Loki	SAGE/MaCWave	Wind measurement 28		98.8
469	2003-01-27	15:45:00	Super Loki	SAGE/MaCWave	Wind measurement 29		
470	2003-01-27	16:33:00	Super Loki	SAGE/MaCWave	Wind measurement 30		
471	2003-01-27	19:26:00	Super Loki	SAGE/MaCWave	Wind measurement 31		116.6
472	2003-01-27	19:38:00	Super Loki	SAGE/MaCWave	Wind measurement 32		
473	2003-01-28	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 33		114.9
474	2003-01-28	15:04:00	Super Loki	SAGE/MaCWave	Wind measurement 34		115.1
475	2003-01-28	15:57:00	Super Loki	SAGE/MaCWave	Wind measurement 35		115.6
476	2003-01-28	16:56:00	Super Loki	SAGE/MaCWave	Wind measurement 36		119.6
477	2003-01-28	17:05:00	Super Loki	SAGE/MaCWave	Wind measurement 37		114.9
478	2003-01-28	17:57:00	Super Loki	SAGE/MaCWave	Wind measurement 38		117.6
479	2003-01-28	18:32:00	Terrier-Orion	SAGE/MaCWave	MaCWAVE		130.0
480	2003-01-28	18:42:00	Super Loki	SAGE/MaCWave	Wind measurement 39		108.3
481	2003-01-28	19:42:00	Super Loki	SAGE/MaCWave	Wind measurement 40		113.9
482	2003-01-29	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 41		113.0
483	2003-01-30	13:00:00	Super Loki	SAGE/MaCWave	Wind measurement 42		117.2
484	2003-01-30	13:12:00	Super Loki	SAGE/MaCWave	Wind measurement 43		111.7
485	2003-01-30	21:10:00	Super Loki	SAGE/MaCWave	Wind measurement 44		107.0
486	2003-01-30	21:55:00	Super Loki	SAGE/MaCWave	Wind measurement 45		114.0
487	2003-01-30	22:03:00	Super Loki	SAGE/MaCWave	Wind measurement 46		95.6
488	2003-04-01	06:00:00	Castor 4B	MAXUS 5	MAXUS 5		702.7
489	2003-04-08	08:20:00	Skylark 7	TEXUS 40	TEXUS 40		246.4

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
490	2004-10-28	19:49:00	Improved Orion	REXUS 2-ECOMA	REXUS 2-ECOMA		91.86
491	2004-11-22	08:35:00	Castor 4B	MAXUS 6	MAXUS 6		706.9
492	2004-12-02	10:30:00	Skylark 7	TEXUS 41	TEXUS 41		226.6
493	2005-01-10	03:29:00	Super Loki	MAGIC	Wind measurement 47		85.0
494	2005-01-10	04:37:29	Improved Orion	MAGIC	MAGIC		95.0
495	2005-01-10	06:00:00	Super Loki	MAGIC	Wind measurement 48		77.0
496	2005-01-10	07:03:00	Super Loki	MAGIC	Wind measurement 49		80.0
497	2005-05-02	05:00:00	Skylark 7	MASER 10	MASER 10	350	252
498	2005-12-01	09:04:00	VSB-30	TEXUS EML-1	TEXUS EML-1		263
499	2006-04-05	05:56:00	Improved Orion	REXUS 3	REXUS 3		94.4
500	2006-05-02	06:16:00	Castor 4B	MAXUS 7	MAXUS 7		701.9
501	2006-05-11	08:12:00	VSB-30	TEXUS 43	TEXUS 43		237
502	2008-02-07	11:30:00	VSB-30	TEXUS 44	TEXUS 44	372.8	264.4
503	2008-02-21	06:15:00	VSB-30	TEXUS 45	TEXUS 45	357	264.4
504	2008-04-01	12:20:00	Improved Orion	April One	GPS		101
505	2008-05-15	04:00:00	VSB-30	MASER 11	MASER 11	380	251
506	2008-10-22	12:30:00	Nike - Improved Orion	REXUS 4	REXUS 4		175
507	2009-03-12	10:08:00	Improved Orion	REXUS 6	REXUS 6		88.8
508	2009-03-13	06:00:00	Improved Orion	REXUS 5	REXUS 5		87.6
509	2009-03-07	10:28:00	Stratos 2 stage rocket	Stratos	Stratos		12.55
510	2009-05-22	10:32:00	Nike - Improved Orion	Mapheus	Mapheus		140.7
511	2009-11-22	11:15:00	VSB-30	TEXUS 46	TEXUS 46	392.9	253
512	2009-11-29	09:00:00	VSB-30	TEXUS 47	TEXUS 47	373.5	263.9
513	2010-03-02	07:25:00	Improved Orion	REXUS 7	REXUS 7	120.9	263.2
514	2010-03-04	10:15:00	Improved Orion	REXUS 8	REXUS 8	140.1	87.8
515	2010-03-26	13:43:00	Castor 4B	MAXUS 8	MAXUS 8	786.3	700.5
516	2010-10-27	10:15:00	Nike - Improved Orion	Mapheus 2	Mapheus		153.1
517	2011-02-22	12:56:00	Improved Orion	REXUS 9	REXUS 9		80.3
518	2011-02-23	10:00:00	Improved Orion	REXUS 10	REXUS 10		82
519	2011-03-29	06:01:00	VSB-30	TEXUS 49	TEXUS 49	381.9	268.2
520	2011-07-21	07:01:00	Nike - Improved Orion	Phocus	Phocus	270	107.8
521	2011-11-27	09:10:00	VSB-30	TEXUS 48	TEXUS 48	397.1	263.2
522	2012-02-13	09:32:00	VSB-30	MASER 12	MASER 12	389.1	260
523	2012-03-19	14:05:00	Improved Orion	REXUS 12	REXUS 12		
524	2012-11-16	10:45:00	Improved Orion	REXUS 11	REXUS 11		79.1
525	2012-11-25	11:20:00	Nike - Improved Orion	Mapheus 3	Mapheus 3		
526	2013-04-12	04:25:00	VSB-30	TEXUS 50	TEXUS 50		
527	2013-05-07	04:00:00	Improved Orion	REXUS 14	REXUS 14		81.5

Nr	Date	Time	Vehicle	Campaign	P/L Name	P/L Weight	Apogee
528	2013-05-09	04:00:00	Improved Orion	REXUS 13	REXUS 13		
529	2013-07-15	05:53:00	VS-30	Mapheus 4	Mapheus 4		
530	2014-05-07	13:10:00	PRO 98-6G	SERA	SERA-1		
531	2014-05-28	11:30:00	Improved Orion	REXUS 16	REXUS 16		
532	2014-05-29	10:00:00	Improved Orion	REXUS 15	REXUS 15		
533	2015-02-22	07:52:00	VS-30	Cryofenix	Cryofenix		
534	2015-03-17	09:15:00	Improved Orion	REXUS 17	REXUS 17	91.7	
535	2015-03-18	13:30:00	Improved Orion	REXUS 18	REXUS 18	91.3	
536	2015-04-23	07:35:00	VS-30	TEXUS 51	TEXUS 51	380.4	259
537	2015-04-27	04:55:00	VS-30	TEXUS 52	TEXUS 52	370.6	255
538	2015-06-30	04:55:00	Nike - Improved Orion	Mapheus 5	Mapheus 5	408.2	253
539	2015-10-02	05:39:00	S31/Improved Orion	O-states 1	O-states 1	206.4	247
540	2015-10-19	14:09:00	S31/Improved Orion	O-states 2	O-states 2	206.4	243.2
541	2015-10-22	08:45:00	Hybrid	Stern	Erig	30	
542	2015-10-22	14:45:00	Hybrid	Stern	HyEnd	50	
543	2015-10-27	13:55:00	Hybrid	Stern	Decan 1	30	
544	2015-10-29	08:55:00	Hybrid	Stern	Decan 2	30	
545	2015-12-01	06:00:00	VS-30	MASER 13	MASER 13	400	261
546	2016-01-23	08:30:00	VS-30	TEXUS 53	TEXUS 53	386	252.6
547	2016-02-02	21:09:00	S-30	Spider	Spider/LeeWaves	141	137.9
548	2016-03-15	05:30:00	Improved Orion	REXUS 20	REXUS 20	121	
549	2016-03-18	05:10:00	Improved Orion	REXUS 19	REXUS 19	118	
550	2016-04-14	06:00:00	Hybrid	Stern	Aquasonic	74.5	
551	2016-04-16	09:57:00	Hybrid	Stern	Zephyr	80.1	
552	2016-04-28	12:00:00	Cesaroni Pro98-6G	SERA	SERA-2	25	5.1
553	2016-07-19	06:05:00	Terrier - Improved Orion	Rotex	Rotex-T	180	
554	2016-10-31	12:00:00	Hybrid	Stern 2, 2016	HyEnd 1	80	
555	2016-11-08	09:30:00	Hybrid	Stern 2, 2016	HyEnd 2	80	
556	2017-01-23	03:30:00	VS-30	Maius	Maius 1	434	
557	2017-03-15	10:43:00	Improved Orion	REXUS 21	REXUS 21	116	
558	2017-03-16	13:00:00	Improved Orion	REXUS 22	REXUS 22	114.6	
559	2017-04-07	10:30:00	Castor 4B	MAXUS 9	MAXUS 9	848	678
560	2017-04-26	13:30:00	3x Cesaroni Pro98-6G	SERA-3	SERA-3	80	5
561	2017-05-13	09:20:00	VS-30	Mapheus 6	Mapheus 6	404	