



# ER-2 MISSION DATA CARD

## ORACLES Transit



PILOT		TAKEOFF DATE		SCHED T/O		ACTUAL T/O		LAND		FLIGHT TIME	
		27 JUL 16		16:00:00 Z							
<b>NASA809</b>				<b>3 kt jet</b> <b>Speeds</b>		ATIS / CLEARANCE				IRIDIUM Preset Char	
Takeoff Time (Z): 16:00:00		Fuel Load: 1353		Glide							
Land Time (Z): 20:09:10		Fuel Used: 864		<b>Min Sink</b>						2	
Sched Duration : 04+09+10		Fuel On Board: 06+11+57		NF "T"						3	
				Flap "T"						4	
WP#	Fix/Point	VOR	Altitude	TC	IM	TAS	Dist	Time	Fuel	ATA	REMARKS
DTD#	Description	TAC	Latitude Longitude	MC Bank	Temp Wind	CAS GS	Leg Total	Leg Total Clock	Leg Total FF	Actual Fuel	
1	KPMD 22/RW PALMDALE USAF		2491M N 34 38.24 W118 03.62	231 T 219 M 20 °	+30C 205/001	T C G	0 0	+03.0 +03.0 16:00.0	50 1303	-----	
	.level off		17500M N 34 42.52 W118 07.69	336 T 324 M °	N/A -5C 128/005	N/A T N/A C N/A G	6 6	+02.3 +05.3 16:05.3	64 1239 1675	-----	
2	ROSIE/W ROSIE		17500M N 34 51.15 W118 12.39	336 T 324 M 20 °	.34 -5C 128/005	215 T 160 C 220 G	9 16	+02.6 +07.9 16:07.9	11 1228 265	-----	
	.level off		65000M N 37 24.01 W117 50.52	009 T 356 M °	N/A -62C 089/015	N/A T N/A C N/A G	154 169	+33.4 +41.3 16:41.3	188 1040 338	-----	
3	OAL/R167018 .PTN2_2	117.70 124X	65000M N 37 42.38 W117 47.72	009 T 356 M 20T °	.70 -62C 089/015	396 T 116 C 397 G	18 188	+02.8 +44.1 16:44.1	8 1032 172	-----	
4	TPH/R280003 .PTN2_3	117.20 119X	65000M N 38 03.33 W117 05.82	059 T 046 M 20 °	.70 -62C 075/020	397 T 116 C 379 G	39 227	+06.2 +50.3 16:50.3	18 1014 171	-----	
5	TPH/R034044 .PTN2_4	117.20 119X	65000M N 38 29.52 W116 18.68	056 T 044 M 20T °	.70 -62C 074/020	397 T 116 C 380 G	45 272	+07.2 +57.4 16:57.4	20 994 170	-----	
6	TQQ/R027058 .N5 ON	113.00 077X	65000M N 38 29.80 W115 56.80	089 T 077 M 20T °	.70 -62C 074/020	397 T 116 C 377 G	17 289	+02.7 01+00.1 17:00.1	8 986 169	-----	
7	ILC/R268063 .RR VALLEY	116.30 110X	65000M N 38 30.24 W115 41.52	088 T 076 M 20 °	.70 -62C 073/020	397 T 116 C 377 G	12 301	+01.9 01+02.1 17:02.1	5 981 169	-----	
8	ILC/R272052 .N5 OFF	116.30 110X	65000M N 38 30.64 W115 26.24	088 T 076 M 20 °	.70 -62C 073/020	397 T 116 C 377 G	12 313	+01.9 01+04.0 17:04.0	5 976 169	-----	
9	ILC/R281037 .PTN2_6	116.30 110X	65000M N 38 31.62 W115 06.39	086 T 074 M 20 °	.70 -61C 073/019	397 T 116 C 377 G	16 329	+02.5 01+06.4 17:06.4	7 969 169	-----	
10	ILC/R301036 .TP	116.30 110X	65000M N 38 41.16 W114 54.89	034 T 022 M 20R °	.70 -61C 072/019	397 T 116 C 385 G	14 343	+02.1 01+08.6 17:08.6	6 963 168	-----	
11	ILC/R281037 .PTN2_6	116.30 110X	65000M N 38 31.62 W115 06.39	271 T 259 M 20 °	.70 -61C 072/019	397 T 116 C 416 G	41 383	+05.9 01+14.4 17:14.4	16 947 168	-----	
12	ILC/R272052 .N5 ON	116.30 110X	65000M N 38 30.85 W115 26.25	267 T 255 M 20 °	.70 -62C 073/019	397 T 116 C 416 G	16 399	+02.3 01+16.7 17:16.7	6 941 167	-----	
13	ILC/R268063 .RR VALLEY	116.30 110X	65000M N 38 30.24 W115 41.52	267 T 255 M 20 °	.70 -62C 073/020	397 T 116 C 416 G	12 411	+01.7 01+18.4 17:18.4	5 936 167	-----	

WP# DTD#	Fix/Point Description	VOR TAC	Altitude Latitude Longitude	TC MC Bank	IM Temp Wind	TAS CAS GS	Dist Leg Total	Time Leg Total Clock	Fuel Leg Total FF	ATA Actual Fuel	REMARKS
14	TQQ/R027058 .N5 OFF	113.00 077X	65000M N 38 29.59 W115 56.78	267 T 255 M 20 °	.70 -62C 073/020	397 T 116 C 416 G	12 423	+01.7 01+20.2 17:20.2	5 931 167	-----	
15	TPH/R035044 .N4 ON	117.20 119X	65000M N 38 28.48 W116 17.63	266 T 254 M 20 °	.70 -62C 073/020	397 T 116 C 416 G	16 439	+02.4 01+22.5 17:22.5	7 924 166	-----	
16	HZN/R152023 .N4 OFF/ON	114.10 088X	65000M N 39 08.69 W118 54.28	290 T 278 M 20 °	.70 -62C 075/018	397 T 116 C 413 G	129 568	+18.7 01+41.2 17:41.2	51 873 165	-----	
17	FMG/R210030 .TAHOE	117.90 126X	65000M N 39 10.84 W120 07.14	272 T 259 M 20 °	.70 -62C 079/016	397 T 116 C 412 G	57 625	+08.3 01+49.5 17:49.5	22 851 163	-----	
18	ENI/R296012 .N4 OFF/ON	112.30 070X	65000M N 39 11.43 W123 28.20	271 T 258 M 20 °	.70 -61C 084/016	397 T 116 C 413 G	156 781	+22.7 02+12.2 18:12.2	61 790 161	-----	
19	ENI/R226086 .N4 OFF/ON	112.30 070X	65000M N 38 21.70 W124 53.07	232 T 218 M 20 °	.70 -61C 087/018	397 T 116 C 409 G	82 863	+12.1 02+24.2 18:24.2	32 758 159	-----	
20	PYE/R221082 .N4 OFF/ON	113.70 084X	65000M N 37 20.53 W124 18.85	154 T 140 M 20 °	.70 -62C 087/019	396 T 116 C 385 G	65 928	+10.1 02+34.3 18:34.3	26 732 158	-----	
21	SGD/R174008 .N4 OFF	112.10 058X	65000M N 38 03.33 W122 24.30	066 T 052 M 20 °	.70 -62C 086/019	396 T 116 C 380 G	97 1025	+15.3 02+49.6 18:49.6	40 692 156	-----	
22	OSI/R114010 .N3 ON	113.90 086X	65000M N 37 16.62 W122 07.02	161 T 147 M 20 °	.70 -62C 085/020	396 T 116 C 388 G	47 1072	+07.2 02+56.9 18:56.9	19 673 155	-----	
23	SNS/R229014 .MONTEREY	117.30 120X	65000M N 36 34.29 W121 51.82	161 T 148 M 20 °	.70 -63C 083/021	396 T 116 C 387 G	44 1116	+06.8 03+03.7 19:03.7	17 656 154	-----	
24	BSR/R161018 .N3 OFF	114.00 087X	65000M N 35 52.88 W121 37.24	161 T 148 M 20 °	.70 -63C 083/023	396 T 116 C 387 G	43 1159	+06.7 03+10.3 19:10.3	17 639 153	-----	
25	PXN/R172016 .TP	112.60 073X	65000M N 36 26.67 W120 49.41	040 T 027 M 20 °	.70 -62C 083/024	396 T 116 C 383 G	59 1218	+09.3 03+19.6 19:19.6	24 615 152	-----	
26	PXN/R131013 .N3 ON	112.60 073X	65000M N 36 31.85 W120 37.68	067 T 054 M 20 °	.70 -62C 083/023	396 T 116 C 376 G	11 1229	+01.7 03+21.3 19:21.3	4 611 151	-----	
27	CZQ/R146006 .FRESNO	112.90 076X	65000M N 36 47.10 W119 46.38	071 T 058 M 20 °	.70 -62C 083/023	396 T 116 C 375 G	44 1273	+07.0 03+28.4 19:28.4	18 593 151	-----	
28	FRA/R081032 .N3 OFF	115.60 103X	65000M N 37 01.65 W118 55.92	071 T 059 M 20 °	.70 -62C 081/022	396 T 116 C 375 G	43 1316	+06.9 03+35.2 19:35.2	17 576 150	-----	
29	FRA/R073042	115.60 103X	65000M N 37 05.71 W118 43.25	069 T 057 M 30 °	.70 -62C 080/022	396 T 116 C 376 G	11 1327	+01.8 03+37.0 19:37.0	4 572 149	-----	
30	FAANG/W		65000M N 37 00.00 W118 35.05	155 T 142 M 20 °	.70 -62C 079/022	396 T 116 C 387 G	10 1337	+01.6 03+38.5 19:38.5	4 568 149	-----	
	.descent pt		65000M N 36 35.65 W118 30.48	169 T 156 M °	.70 -62C 080/022	396 T 116 C 414 G	25 1361	+03.6 03+42.1 19:42.1	9 559 149	-----	
31	ROSIE/W ROSIE		4500M N 34 51.15 W118 12.39	172 T 160 M 20 °	N/A +25C 080/010	N/A T N/A C N/A G	105 1467	+24.1 04+06.2 20:06.2	60 499 150	-----	

WP#	Fix/Point	VOR	Altitude	TC	IM	TAS	Dist	Time	Fuel	ATA	REMARKS
DTD#	Description	TAC	Latitude Longitude	MC Bank	Temp Wind	CAS GS	Leg Total	Leg Total Clock	Leg Total FF	Actual Fuel	
32	KPMD/A PALMDALE USAF		2543M N 34 37.76 W118 05.07	156 T 144 M 20 °		T C G	15 1481	+03.0 04+09.2 20:09.2	10 489	-----	