

19870129IL-FDIR

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OROWF1 FILE

FLT ID: 870129I	FM: Darwin, Au	TO: Darwin, Au
FLT NO: 87-27	BLK IN: 0233	ATA: 0227
ETD: 1730Z	BLK OUT: 1735	ATD: 1743
ETE: 9	BLK TIME: 8:58	FLT TIME: 8:44
SPONSOR ORG: EIZL	PROGRAM: EMEX #7	PURPOSE: Research

OAO PERSONNEL

AC: Gunnor	SYS ENG: Goldstein
CP: Eilers	DATA SYS: Lynch
NAV: Secretan	RADAR:
FE: Ricci	BT/ODW: Schriker
RADIO: Dunn	CLD PHYS:
FD: Parrish	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Burpee, R	P.I.	HAD
Marks, F.	P.I.	HAD
Houze, R.	P.I.	U of Wash
Stephens, G.		CSU
Biggerstaff, M.	Radar	U of Wash
Mapes, M.		U of Wash
Churchill, D.	C.P.	U of Wash
Gamache, J.	Doppler	HAD

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

Go to 10S, 137E. Changed 13S, 128.5E. NASA 706
 14, 129. 14, 128, 13 127.5, 12. 128,

11.5, 128 - center of circ

Dropped 7 OROs on survey - found circ center ~ 12°45', 128°00'

Convective pattern 220-040 line centered 13.5, 128.

Second Conv pattern near 13S between 127.5 & 129.

Stratiform pattern along 129 between 13 & 14.5 S.

FLT ID: 870129J TIME OFF: 1743 TIME ON: 0227

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	SP 1005.8 PS 1005.7	ALT 1005.5	SP 1006 PS 1004.3	ALT 1005.5

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES	No	
RADAR TAPES	15	
DOPPLER TAPES	18	
ODW CASSETTES	3	
HARD COPIES	2	
C.P. (pms)	44	
AXBT		
AXCP		
ODW	7	First semi-back for IL. Quit before speech

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE	1/5	1/5	1/5	—	

REMARKS

Radar data system had time glitch from 2000 to 2020.

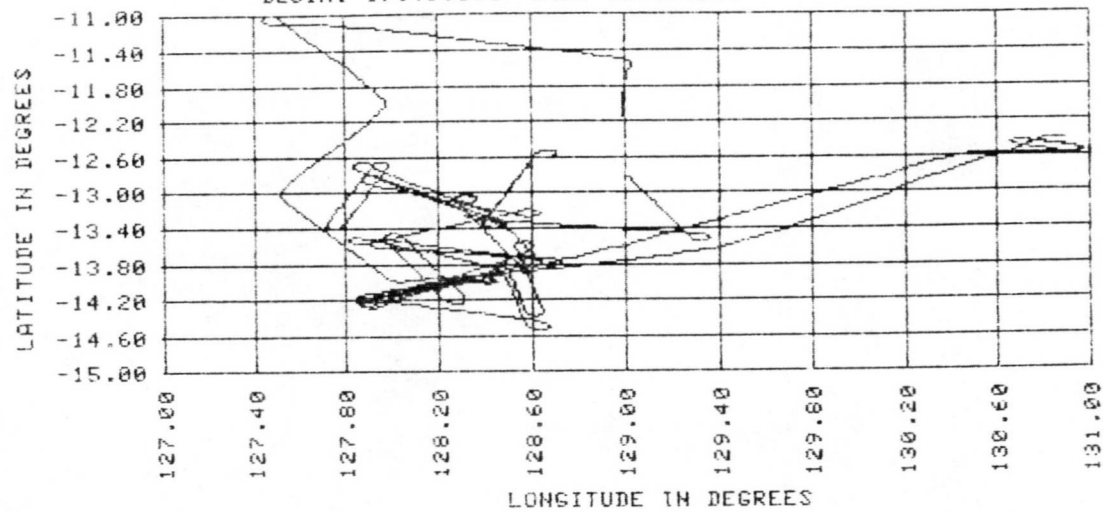
NAV TERMINAL ERRORS

INE	LAT	LOD	GS
1	-2.0	+9.8	5
2	+20.0	0.0	4

870129I EMEX #7

Time	LAT	LONG	TK	WD	WS	PA	GA	TA	TD	SP	PS				
1745	12 25	130 49	232	248	9	570	557	22.5	20.0	1005.8	928	↑			
174930	12 37	130 36	231	239	8	2038	2108	15.6	12.6	1004.5	781	↑			
175330	12 47	130 22	231	332	10	3295	3430	8.9	5.0	1003.8	665	↑			
175930	13 05	130 03	227	347	8	4494	4710	2.1	0.1	1001.8	575	↑			
1806	13 25	129 40	231	25	21	4880	5114	0.6	-1.2	999.5	549	-			
181218	13 41	129 13	250	29	7	4879	5105	0.0	-0.3	1000.3	549	Drop 1	Worletslet-1st		
1824	13 56	128 20	260	39	17	4875	5106	0.2	0.8	1001.5	549				
182829	13 57	127 58	334	84	19	4877	5106	0.0	0.0	1000.8	549	Drop 2	Good		
1836	13 25	127 41	333	88	13	4874	5102	0.1	-2.7	1001.1	549				
184227	12 56	127 32	125	160	7	4872	5083	-0.6	-1.5	1002	550	Drop 3	Good		
1848	12 33	127 44	28	265	10	4870	5101	0.2	-3.4	1001.3	549.6				
185615	11 56	127 58	334	280	15	4869	5107	0.2	-3.3	1001.4	549	Drop 4	Good		
191212	11 05	127 31	94	304	14	4867	5102	0.0	-2.0	1001.6	550	Drop 5	Good		
191930	11 12	128 05	110	302	17	4864	5101	-0.3	-0.7	1002.6	550				
1928	11 25	128 45	106	300	24	4864	5100	0.0	-2.2	1002.7	550				
193150	11 36	129 01	187	335	19	4862	5096	0.5	-1.8	1001	550	Drop 6			
194330	12 34	128 63	181	10	19	4861	5095	0.1	-2.3	1001.8	550				
194621	12 50	129 01	160	5	13	4860	5095	-0.2	-1.7	1003.1	551	Drop 7			
						CONVECTIVE PATTERN									
194630	↓	↓	160									Leg 1	195530		
195800	13 28	129 18	2912	19	5	4858	5087	-0.2	-	1001	551	Leg 2	2011		
2011	Orbit to act comm w/ Darwin														
201730	13 03	128 22	-	still	orbiting										
201945	13 08	128 18	160	293	4	4856	5089	-0.2	-2.5	1003	551	Leg 3	202840		
203120	13 44	128 34	290	254	17	4854	5077	-0.3	-0.7	1001	550.9	Leg 4	203920		
204145	13 31	128 04	160	348	13	4851	5081	0.1	-0.3	1002	551	Leg 5	205045		
205245	14 12	128 13	340	340	14	4852	5078	-0.6	-	1002.4	551	Leg 6	210145		
210415	13 37	128 00	100	28	16	4848	5081	0.2	-1.5	1002.2	551.2	Leg 7	211315		
211550	13 46	128 38	340	290	5	4844	5071	0.4	-1.0	1001.1	551.4	Leg 8	212450		
						2nd CONVECTIVE LINE PATTERN									
212405	13 12	128 24	315	79	6	4844	5076	0.1	-1.6	1002.5	551.4	Leg 1	213230		
213440	12 43	127 59	195	322	1	4843	5079	-0.0	-2.7	1002.3	551.6	Leg 2	214340		
214520	13 20	127 44	015	87	8	4840	5072	-0.1	-1.1	1002.7	551.7	Leg 3			
215640	12 46	127 53	135	290	7	4841	5079	0.4	-2.8	1002.2	551.7	Leg 4	~2107		
220855	13 21	128 24	015	325	8	4841	5077	-0.3	-0.7	1002.3	551.9	Leg 5	221755		
222240	12 36	128 36	195	345	22	5487	5772	-3.8	-5.7	1001.7	505	Leg 6	223140	↑	PA
223425	12 19	128 27	315	347	16	5483	5763	-3.4	-5.5	1000	506.2	Leg 7	224325		
						STRATIFORM PATTERN									
224540	12 54	127 57	120	35	10	5484	5768	-3.3	-6.0	1001.5	506.2	Leg 1	225440		
225730	13 14	128 29	240	60	8	5481	5763	-3.3	-4.5	1000.9	506.1	Leg 2	226630		
230905	13 31	127 55	120	330	3	5476	5760	-3.3	-4.0	1000.6	506.5	Leg 3	231805		
232040	13 50	128 32	240	300	15	5481	5757	-2.8	-4.4	999	506.4	Leg 4	232940		
233220	14 15	127 57	060	050	5	5480	5764	-3.1	-3.8	1000.4	506.5	Leg 5	234220		
234405	13 49	128 29	170	331	20	6063	6409	-6.2	-8.0	997	464	Leg 6	235030	↑	to 204
235220	14 18	128 39	350	71	17	6126	6446	-6.5	-7.8	996.3	464	Leg 7	000120		
000420	13 42	128 33	225	4	12	6125	6455	-6.3	-8.2	997	464	Leg 8	0014		
001635	14 11	127 56	110	270	2	6123	6449	-6.6	-7.7	997.8	464	Leg 9	002540		
002820	14 27	127 34	350	111	11	6123	6444	-6.3	-7.4	996.8	464	Leg 10			
						THERMO SOUNDING									
003635	13 56	128 19	245	236	7	6428	6766	-8.9	-9.5	995.5	444.8	004135	21K		
004515	14 08	127 55	065	275	11	5505	5792	-2.8	-4.4	999	505	005015	18K		
005345	13 57	128 20	245	281	15	4542	4766	2.3	0.9	1003	574	005845	15K		
010200	14 09	127 58	065	293	5	3650	3817	7.6	3.6	1004.6	6445	010700	12K		
011040	13 59	128 20	245	33	12	2455	2532	14.1	9.2	1006.2	78.6	011540	8K		
011910	14 09	128 00	065	142	8	1239	1253	20.0	16.8	1007	873	012410	4K		

FLIGHT TRACK PLOT FOR FLIGHT ID: 870129I
 BEGIN: 17:40:00Z END: 02:30:00Z



FLIGHT TRACK PLOT FOR FLIGHT ID: 870129I
 BEGIN: 18:30:00Z END: 01:45:00Z

