

19940924H1-FDIR

HURR. "OLIVIA" (epac)

940924H (Low Plane on ICS&EE)

TYPE OF DATA

SENSOR OR OPTION

INE	2
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO2942.CON

Notes:

There were no time/data gaps.

As always, in very moist conditions wetbulbing occurs, as it did on this flight.

The Flight Director balanced the DEWPOINTER at 180100Z and 232600Z. The data was despiked and patched...

The aircraft INE positions were renavigated with respect to 11 GPS positions.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Takeoff -----	Landing -----
Aircraft static pressure	1012.2mb	1009.7mb
Corrected tower pressure	1013.2mb	1010.5mb

Flight Meteorologist: Philip D. Bogert (813) 828-3310 ext. 3072

FLT ID: 940924H	FM: MM PR	TO: MM PR
FLT NO: 94-063	BLK IN: 25/0153	ATA: 0148Z
ETD: 1630Z	BLK OUT: 1643Z	ATD: 1653Z
ETE: 9+30	BLK TIME: 9+10 (9.2)	FLT TIME: 8+54 (8.9)
SPONSOR ORG: HRD	PROGRAM: H. Res.	PURPOSE: H. OLIVA

OAO PERSONNEL

AC Kennedy ✓	SYS ENG Roes ✓
CP Player ✓	DATA SYS BARR ✓
NAV STRONG ✓	RADAR
FE Torrey ✓	BT/ODW McMillan ✓
RADIO ARNASON ✓	CLD PHYS
FD BOGERT ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFadden ✓	Not identified...	AOC
Camache ✓	P.I.	HRD
Burpee ✓		"
P. Black ✓		"
P. Dodge ✓		"
J. Lawrence ✓		"
Alberto Guerrero ✓		
15 I.O.B.		

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

ALT — 2992/1013.2mb IP. 16.3N 118.5W
 SP — RA 1012.8 mb eye ~15-24N 118-30W
 PS — 1012.2mb @ ~2015Z
 D.P. Bar 1801Z, 2326Z

ALT — 2984/1010mb
 SP — 1010.5mb
 PS — 1009.7mb

07 HURRICANE Eye Penetrations

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 940924H TIME OFF: 1653Z TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

0

RADAR TAPES ~~DT~~

1

DOPPLER TAPES

0

ODW CASSETTES

3

HARD COPIES

0

pms

1

AXBT

5

AXCP

0

ODW

0

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON ☒				
OFF				
RATE				

REMARKS

Time	LAT		LONG		TRK	Wd	WS	PA	CA	TA	Td	Sp	PS
1727	19	51	107	33	248	005	10	5492	5848	-4.1	-22.5	121	505.6
1758	19	00	110	0	247	107	08	5493	5851	-4.3	-27.5	133	505.6
1832Z	05W		DROP (CAL #1)		ON	N43..							
1843	17	29	113	39	247	137	14	5489	5841	-4.3	-10.6	118	505.8
1930	16	44	112	33	260	114	51	3058	3175	10.5	7.5	047	696 NRIP
2325	17	37	116	53	073	131	37	7026	7461	-12.8	-14.8	027	409.1 TO mmpR
3/0011	18	41	113	08	073	101	07	7028	7482	-13.4	-34.2	078	409

FLIGHT PLAN

PROPOSED T.O.	16302
ACTUAL T.O.	1653

TIME	CORRECTION FACTORS	
	LAT	LONG
1745	-1	-1
1925	-3	0
2037	-5	-1
2126	-5	-1
	-6	-1
	-6	-1
2100	-7	-1

ALIGN REMARKS: NO PROBLEMS.

$$9 + 29$$

OLIVIA #1

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
KENNEDY	STRONG	N42RF	94-063	1653	MMPR -PUR-	24 SEP 94	OLIVIA 5

TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS
1627	20-40.7 105-15.1	4	✓	✓	✓	✓	✓	✓	CHOCKS
1702	20-29.8 105-43.4	GPS 1	20-29.2 105-43.3	+1.6 +1.1	20-29.5 105-43.5	+1.3 -1.1	231	251 249	Fm1
1747	19-15.0 109-09.0	GPS 1	19-13.6 109-08.4	+1.4 +1.6	19-14.9 109-08.3	+1.1 +1.7	18.0 297	248 248	Fm1
1826	18-01.1 112-17.8	GPS 1	17-59.2 112-17.9	+1.9 -1.1	18-00.8 112-17.8	+1.3 0	18.0 303	249 247	Fm1
1925	16-46.6 117-09.2	GPS 1	16-43.8 117-08.9	+2.8 +1.3	16-46.2 117-08.5	+1.4 +1.7	258 294	265	Fm1
1946.07	15-47.5 117-55.3	GPS 1	15-44.4 117-55.7	+3.1 -1.4	15-46.7 117-55.1			(81)	6
2018	15-54N 118-03W	GPS 1							6
2035	16-08.3 118-52.5	GPS 1	16-03.6 118-51.0	+4.7 +1.5	16-06.8 118-51.4	+1.5 +1.1	10.0 306	200 201	Fm1
2051	15-54.2 118-05.6	GPS 1	15-50.0 118-05.2	+4.2 +1.4	15-52.7 118-04.4	+1.5 +1.2	10.0 231	095 085	Fm1
2158	16-05.8 118-13.2	GPS 1							Fm1 16-03N 118-16W
2206	16-38.8 118-12.7	GPS 1	16-32.2 118-11.8	+6.6 +1.9	16-36.2 118-11.6	+2.6 +1.1	10.0 238	016 000	Fm1
2224	16-06.7 118-17.0	GPS 1			16-07 118-19				Fm1 16-07 118-19

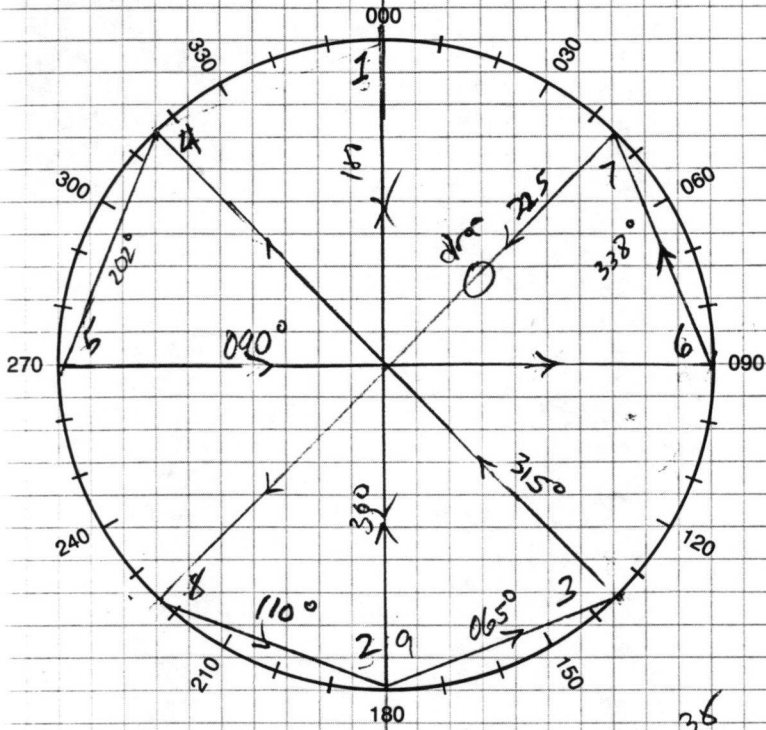
ATC CLEARANCE:	W # 3
118-18.5	S - 3
	16-03N
ENROUTE CLEARANCES:	15-17
	15-11

TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL

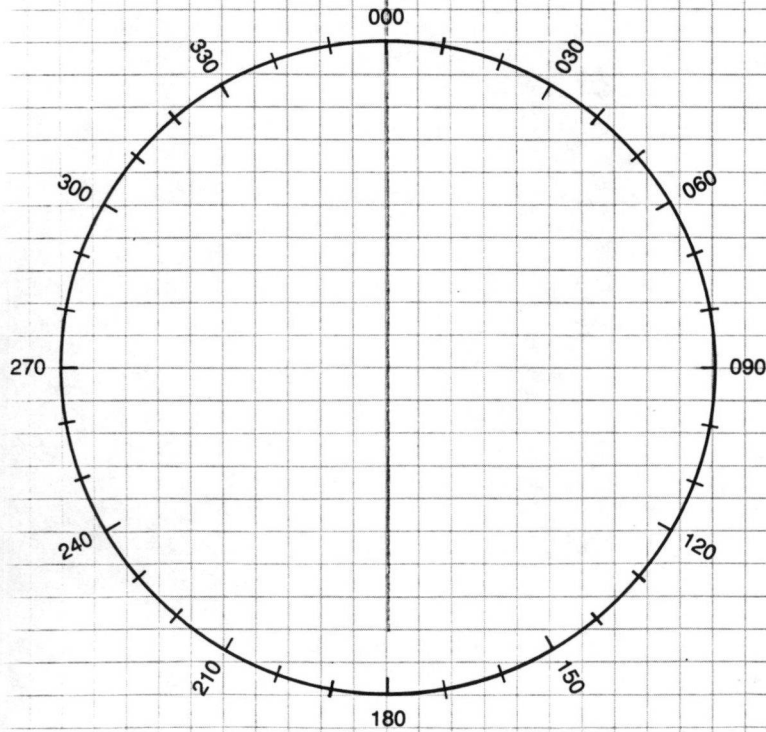
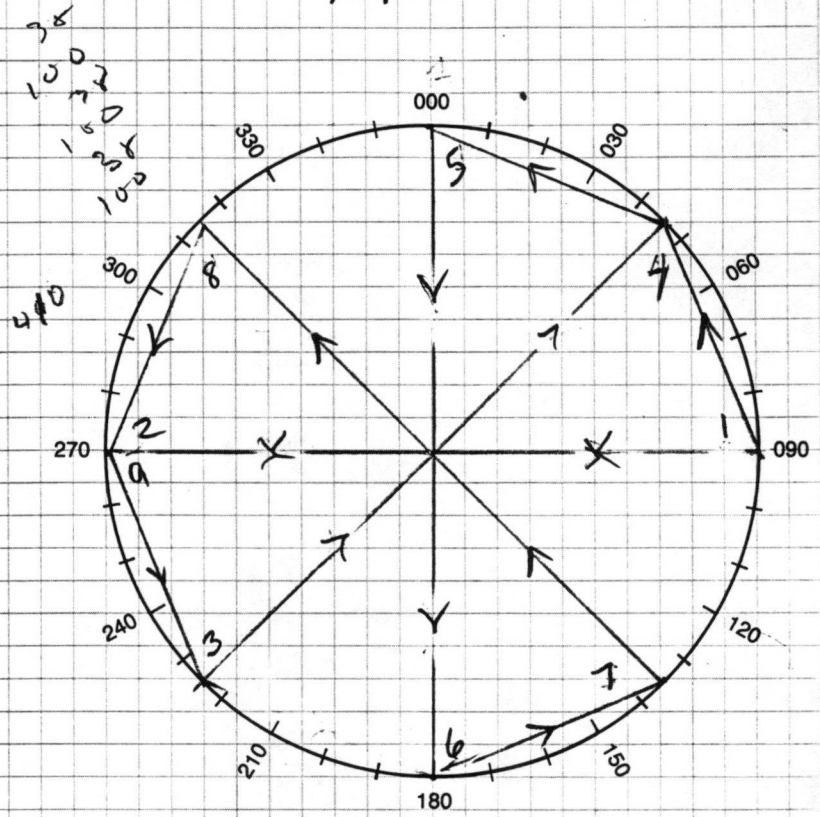
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PLOTTING CHART

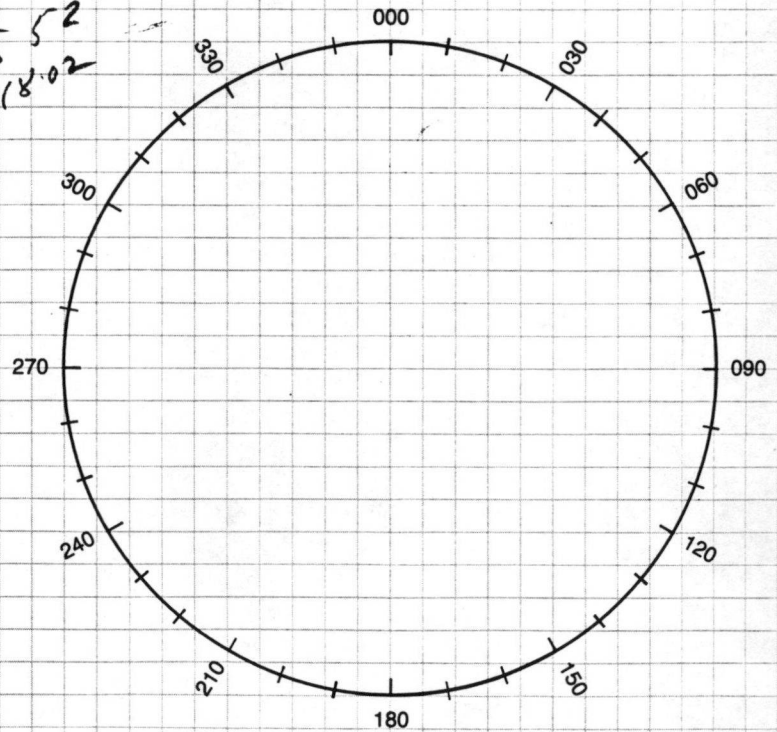
N42RF



N43RF



1552
118.02

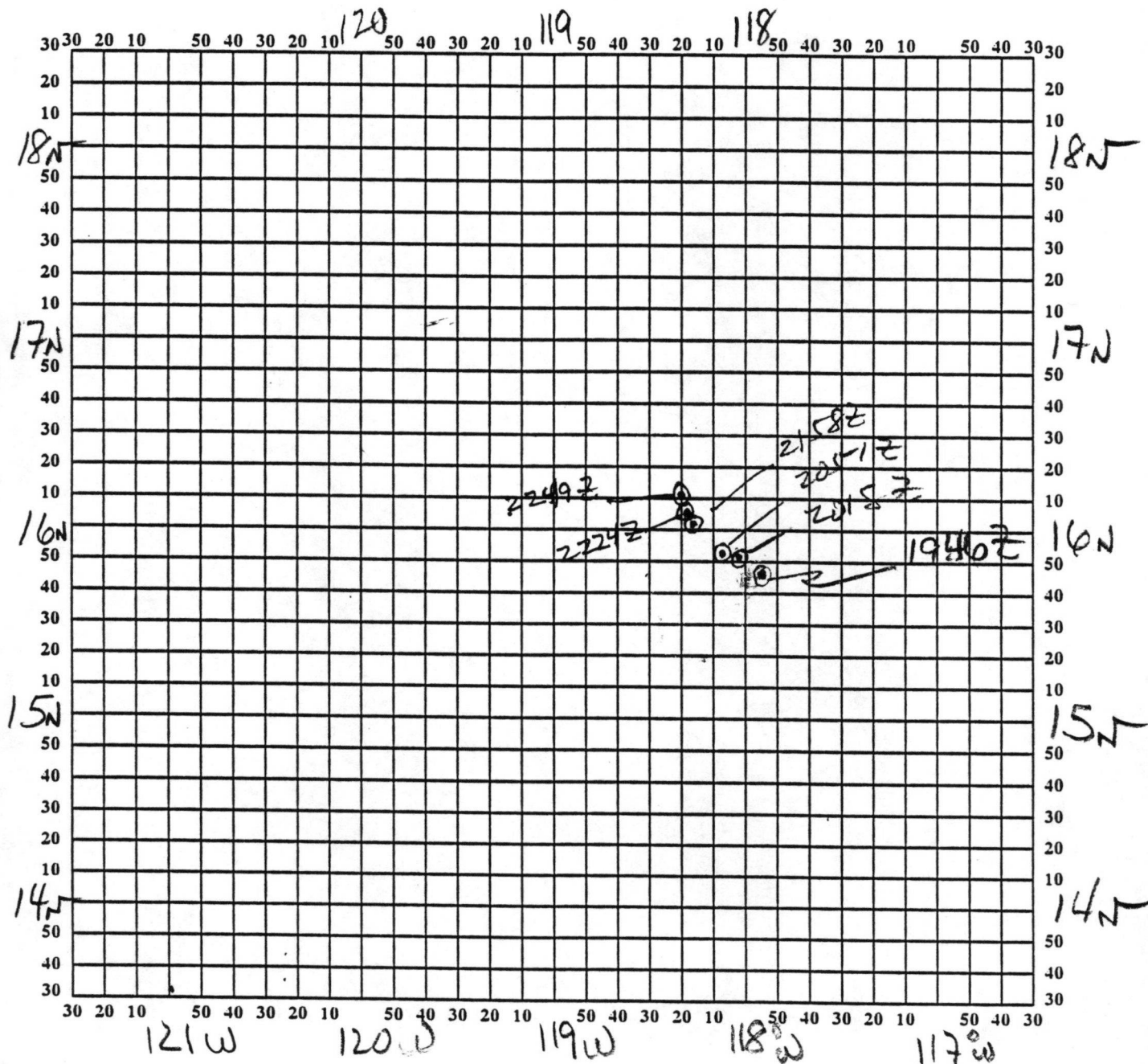


H. OLIVIA

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ .

Date 9-24-94 Longitude 118.5W Observer Boyet



Note: Label full degrees according to location of flight area.