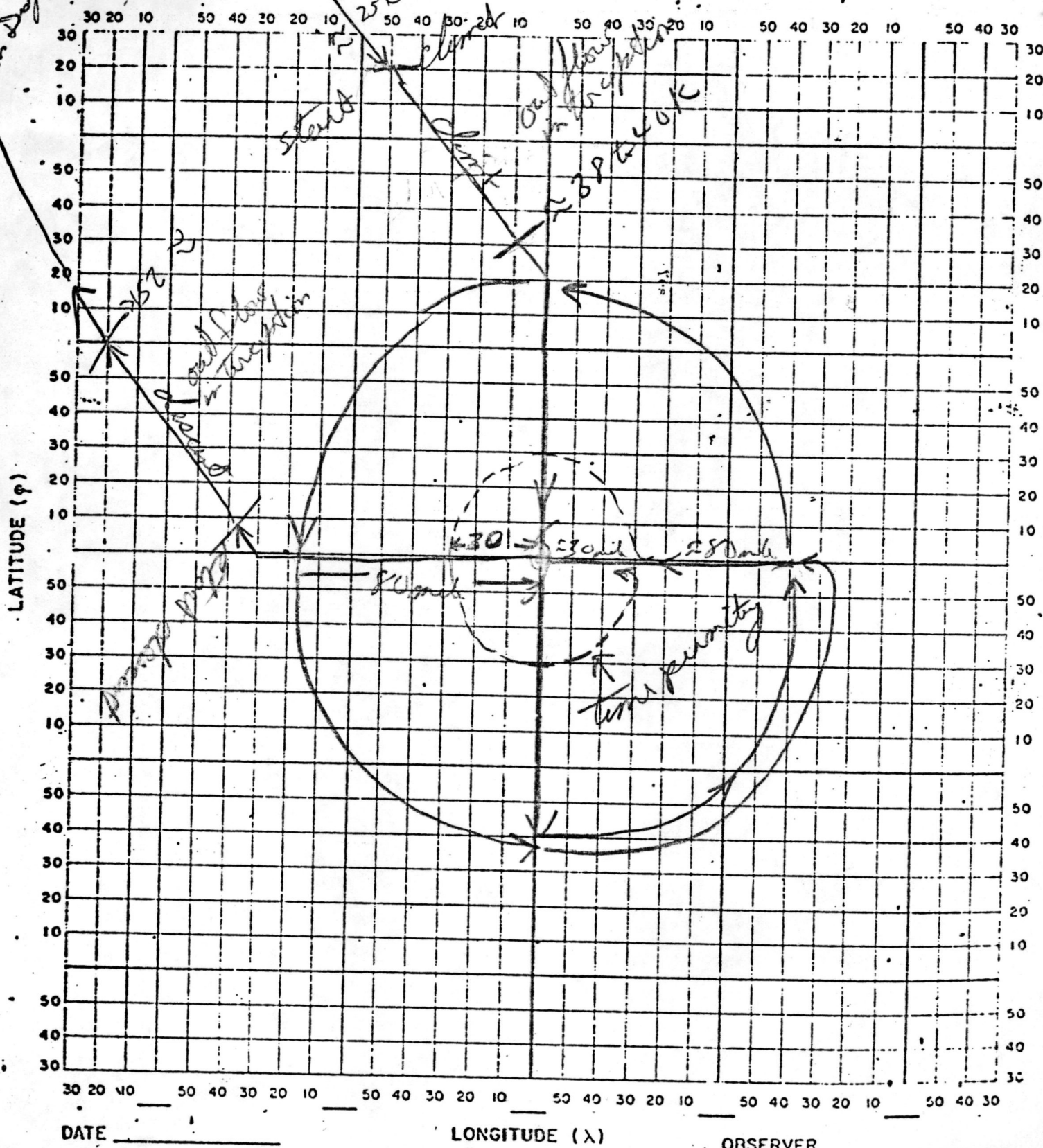
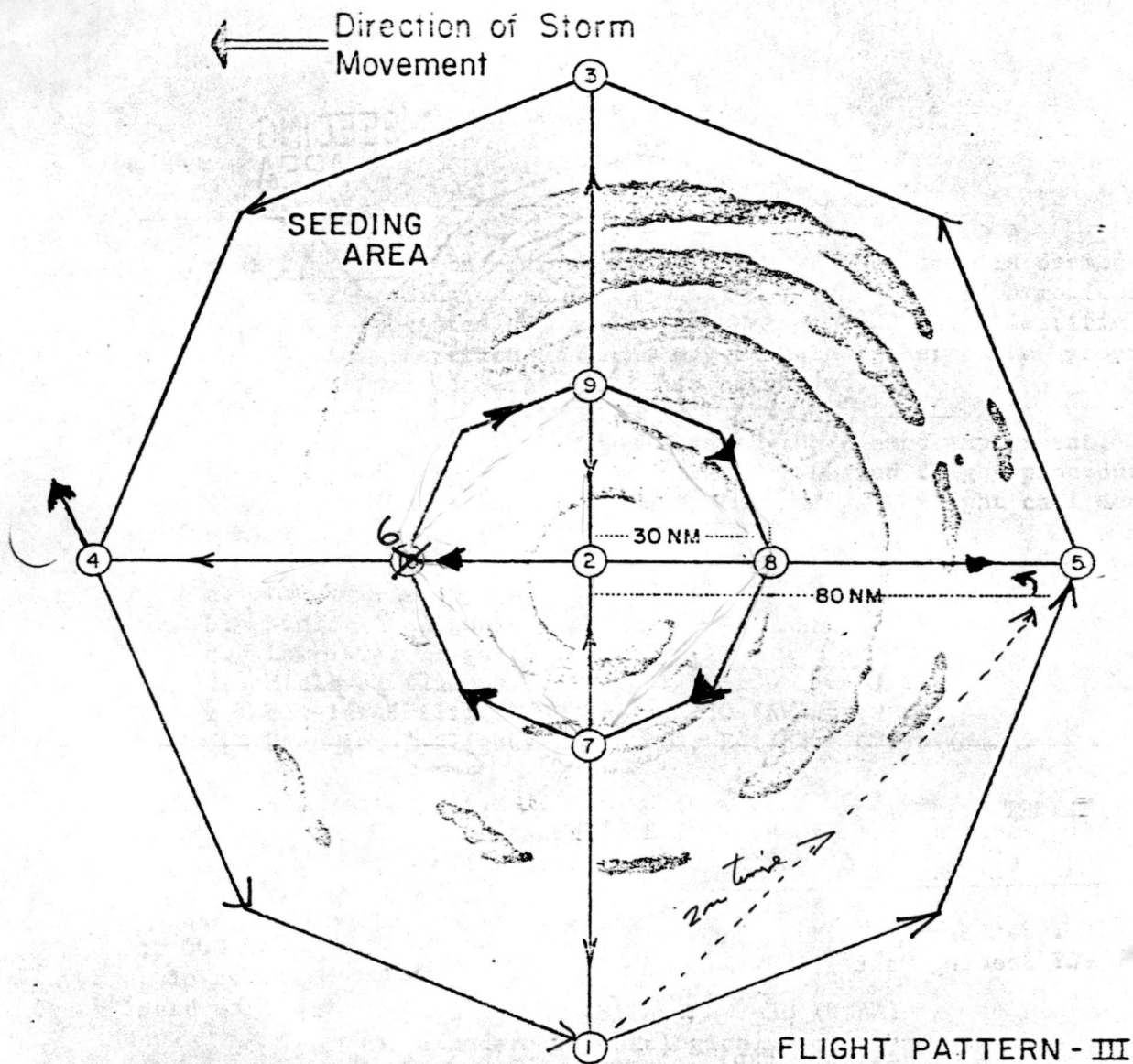


TRUE AT 25° ^YLATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

MULTIPLE SEEDING EXPERIMENT AND HURRICANE MONITORING



NASA FLTS E3, E4, E5 (Seeding) and E, E2, E3, E4, E5
(Long-term Monitoring)

FLY Pattern II at 30,000 ft as listed. Climb to 40,000 ft.
FLY 1-2-3-4-1-5-3-2-7 then 7-8-9-10-7-2 on exterior edge of
eyewall at 40,000 ft. Return to base.

NASA FLT E (Seeding Exp.)

FLY 1-2-3-4-1-5-3-2-7 then 7-8-9-10-7-2 on exterior edge of
eyewall as near to the 40,000 ft. level as practical. Descend
at 2 to 30,000 ft. FLY Pattern IV as listed.

NASA FLT E2 (Seeding Exp)

FLY Pattern IV as listed. Climb 2-1 to 40,000 ft.
FLY 1-2-3-4-1-5-3-2-7 then 7-8-9-10-7-2 on exterior edge of
eyewall. Return to base.

Tab E of Appendix E.1. Flight Pattern III. Multiple Seeding Experiment
and Hurricane Monitoring Pattern and Flight Sequences

3-2-1-5-3-4-
1-5-2-10 Then inner circle 4

10/5/77

Hurricane Heather Flt # 15 A/B/C

1. 1400 Z position 20N/114W
2. Forecast position at 2200 Z 21.5N/115.0W.
Moving at 15 kts, SFC winds are about 75 kts.

3. Flight Objectives:

A. Sea surface mapping of ocean area North of Hurricane. This will be done on the transit to & from the Hurricane. The transit legs will be offset from each other by about 50 nmi. The data run will be from 30°N to about 25.0°N trying to stay beneath ci clouds; at 25.0°N we start a skew climb to about FL 370/390.

B. Reference Flight Pattern - III (Hardout)

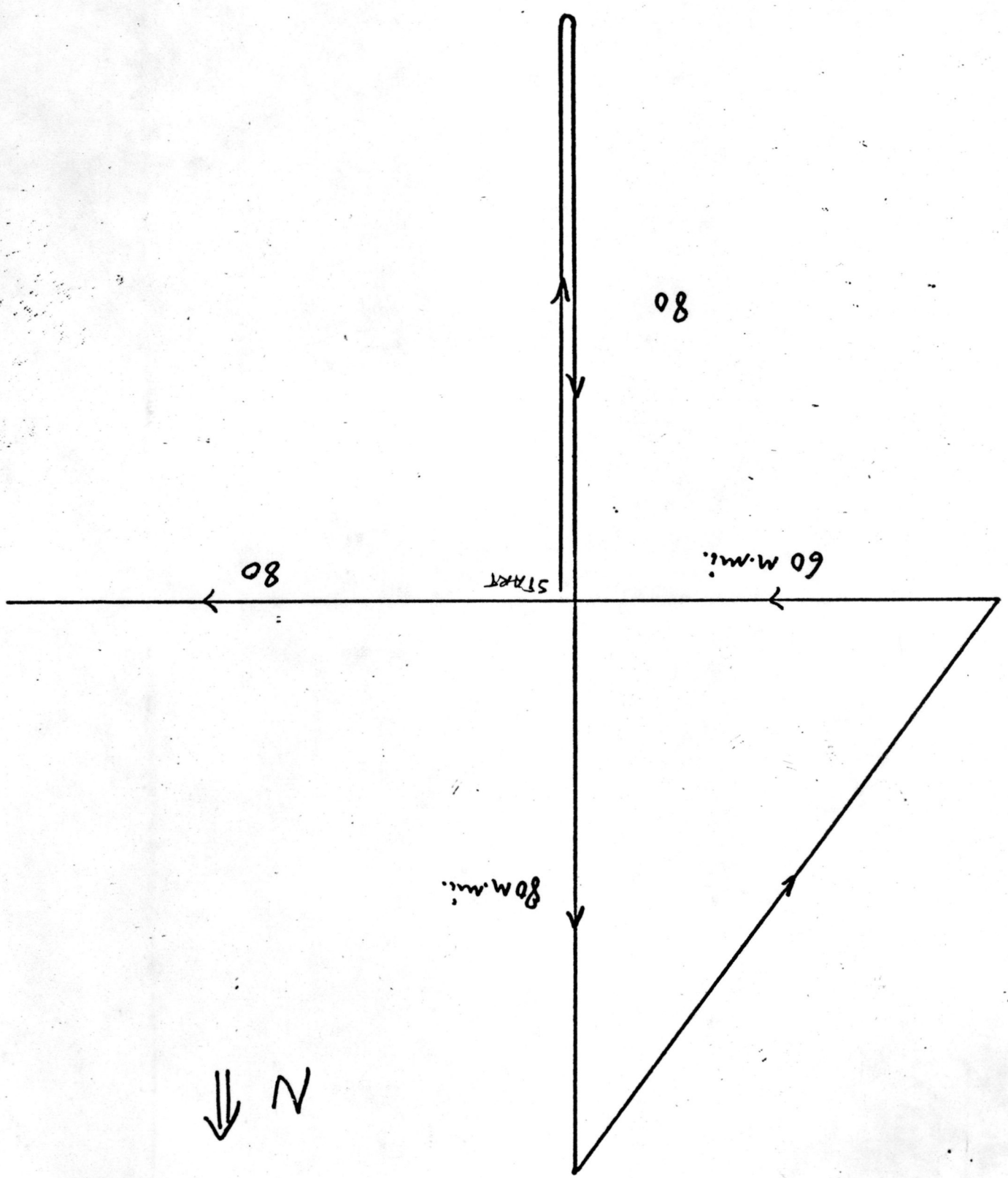
The pattern is as follows

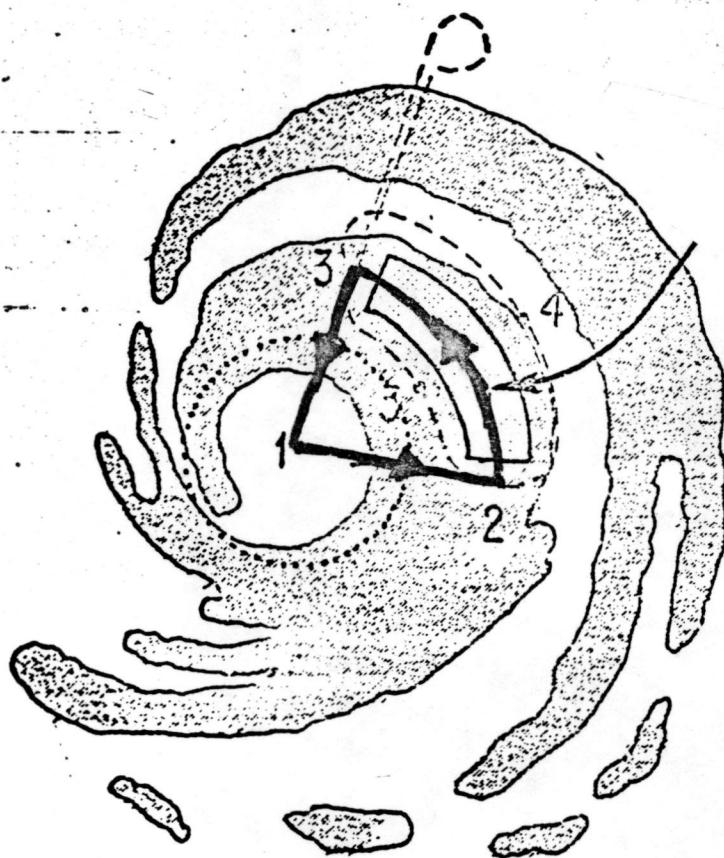
③ - ② - ① - ⑤ - ③ - ④ - ① - ⑤ - ② - ⑥ Then inner circle (6-7-8-9-6-4) or ④ → Exit

C. After turning northward at ④ we start a slow descent (1500'/min) until we get below ci & continue Thermal Image obs. Skew descent is for sludging wind field. Run ends at 30°N lat.

AIRCRAFT TYPE		RADIO CALL		DATE		FROM		TO		PLANNED T.O.		ACTUAL T.O.		PILOT		COPILOT	
GROSS WT.		FUEL LBS		MISSION FUEL		RESERVE FUEL		RUNWAY TEMP.		PRESS. ALT		NAVIGATOR		ENGINEER			
CV 990		NASA 712		10/5/77		NKX		NKX		2000 Z				DRINKWATER		STINNETT	
												MORRISON		STANLEY			
FLIGHT PLAN			FLIGHT LOG AND PLANNING CHART										FLIGHT LOG				
TO			FREQ	AIRWAY		MAGNETIC COURSE	DISTANCE	ESTIMATED		ACTUAL		GROUND SPEED	REMARKS				
VP	COORDINATES	IDENTIFICATION		ALTITUDE				MINS TO CHECK	TIME OVER CHECK	MINS TO CHECK	TIME OVER CHECK						
1	32N 117-20W	MZB 173/45	117.8	D 1	177	53	4:02 :11					300					
2	30N 117W			D 1	158	121	:18					400	2.34 /6				
8	25N 115W			D 2	149	317	:45					420					
3	22-50N 115W	22-25N 114 40W 2142		D 1	170	130	:17					460	1423				
2	21-30N 115W	21 05 114 40W		D 1	170	80	:10					470	1443				
	DELAY	100NM RADIUS		D 1			2:15						3458				
3	25N 116W			D 1	355	215	:28					465					
2	30N 118W			D 1	328	315	:41					460					
1	32N 117-20W	MZB 173/45	117.8	D 1	003	125	:17					440	5107				
9	32-52N 117-09W	NKX		D 1	357	53	:18										
							5:40										

C-130 (41C) 1000 ft AXT pattern





FLIGHT PATTERN IV

FLIGHT PATTERN IV

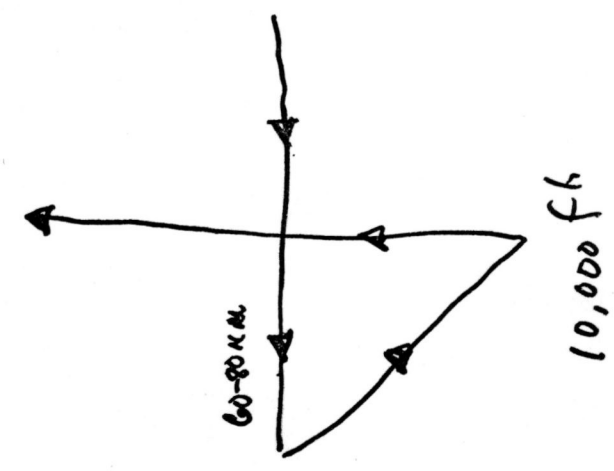
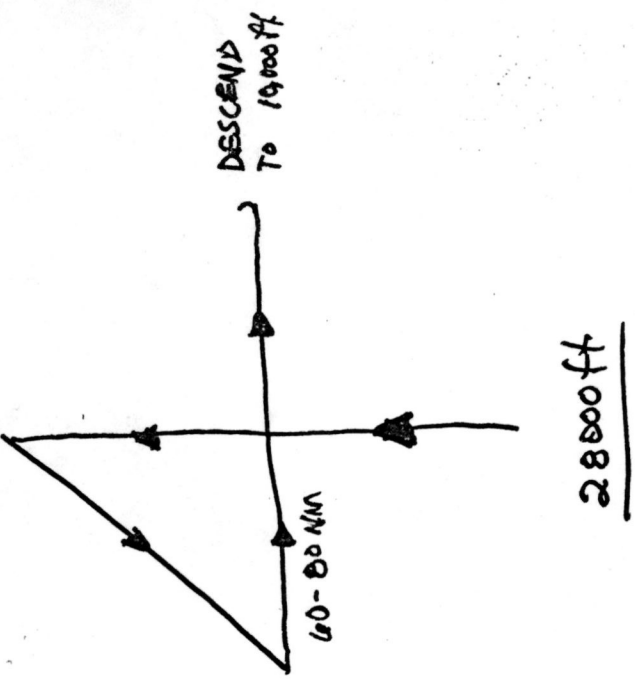
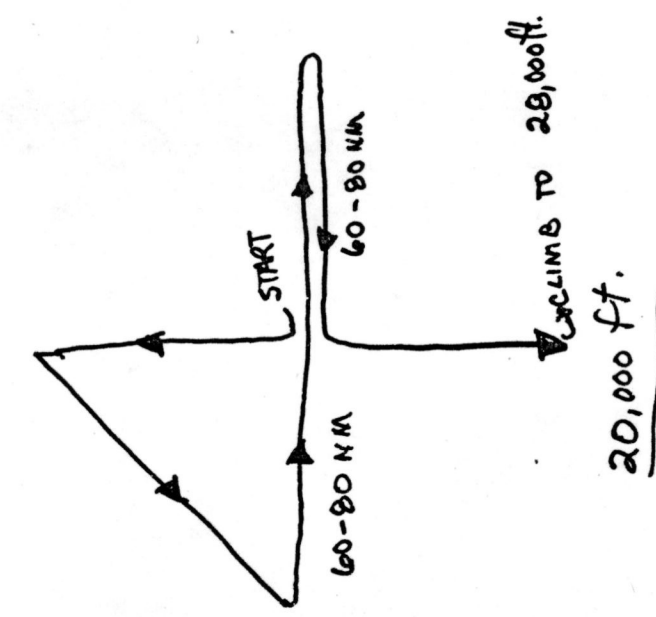
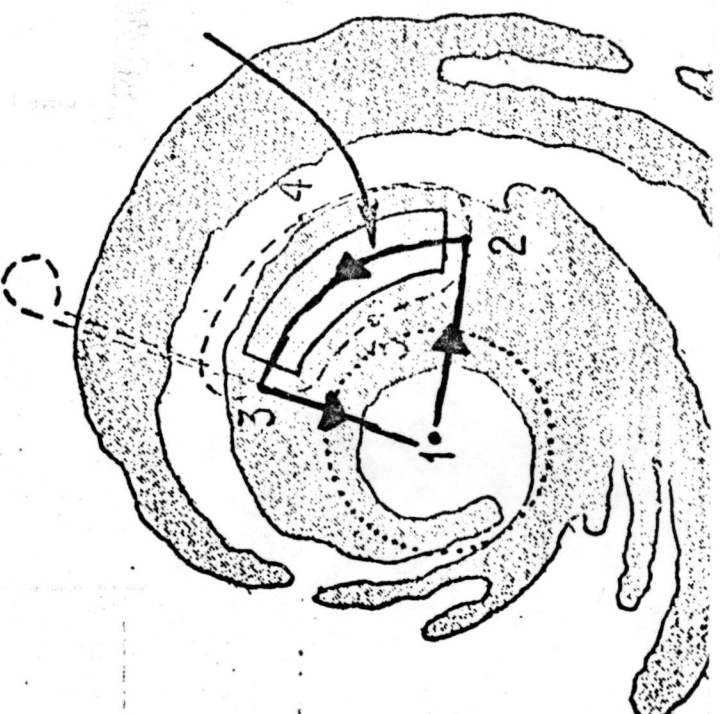
42RF

PATTERN - 2 TIMES AT 20,000 ft. (-5°C)

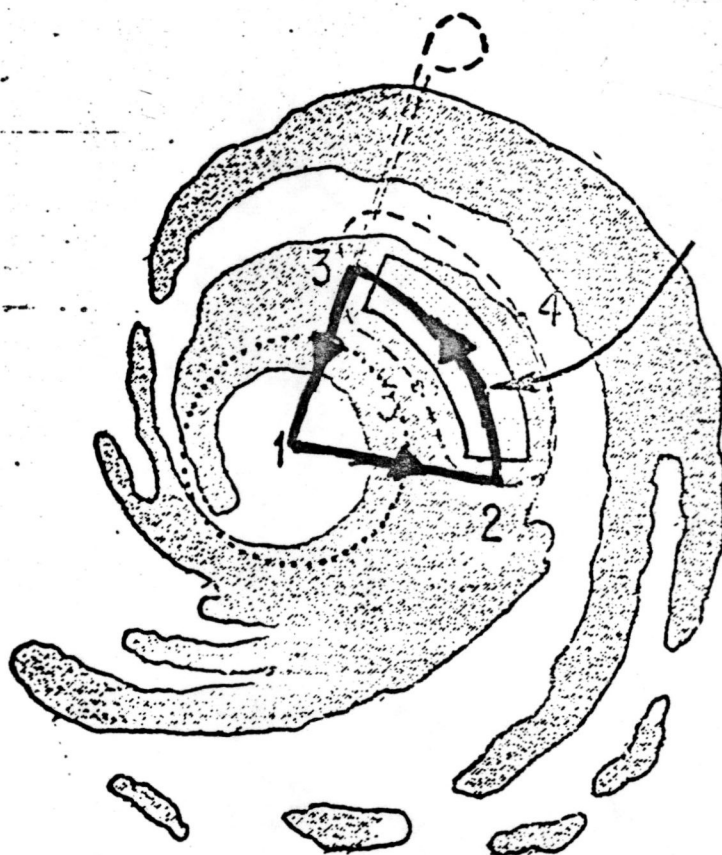
2 TIMES AT 24,000 ft. (-15°C)

41C

PATTERN - 2 TIMES AT 10,000 ft. (+10°C)



42 RF



FLIGHT PATTERN IV

FLIGHT PATTERN IV

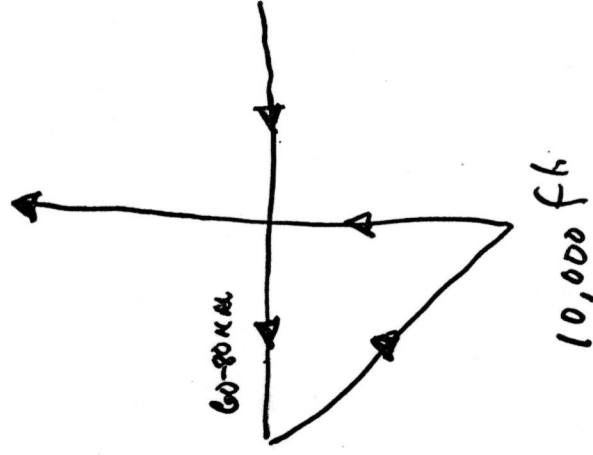
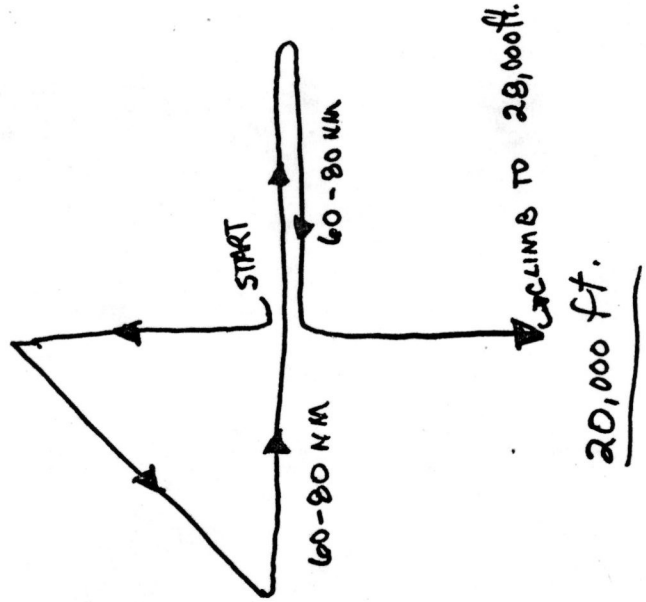
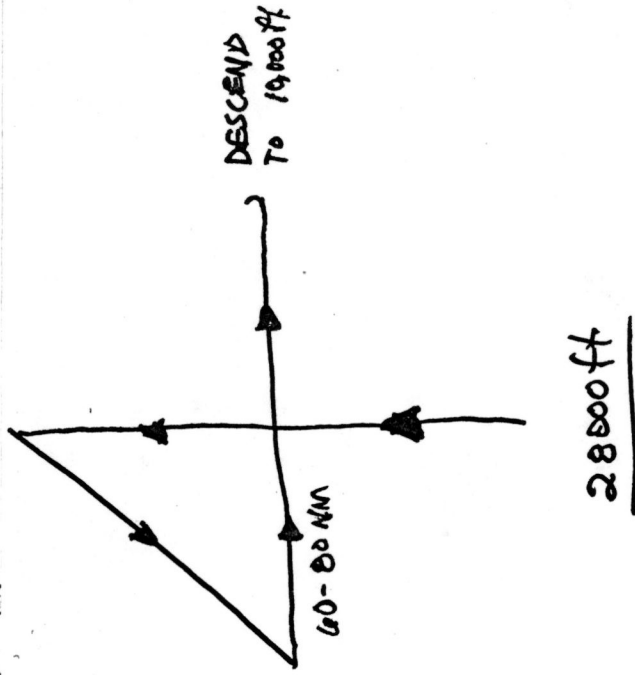
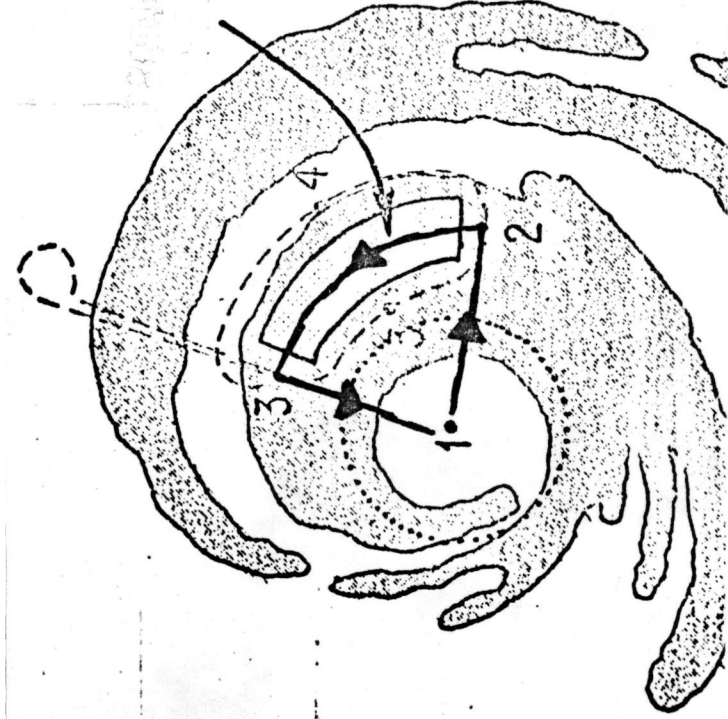
42RF

PATTERN - 2 TIMES AT 20,000 ft. (-5°C)

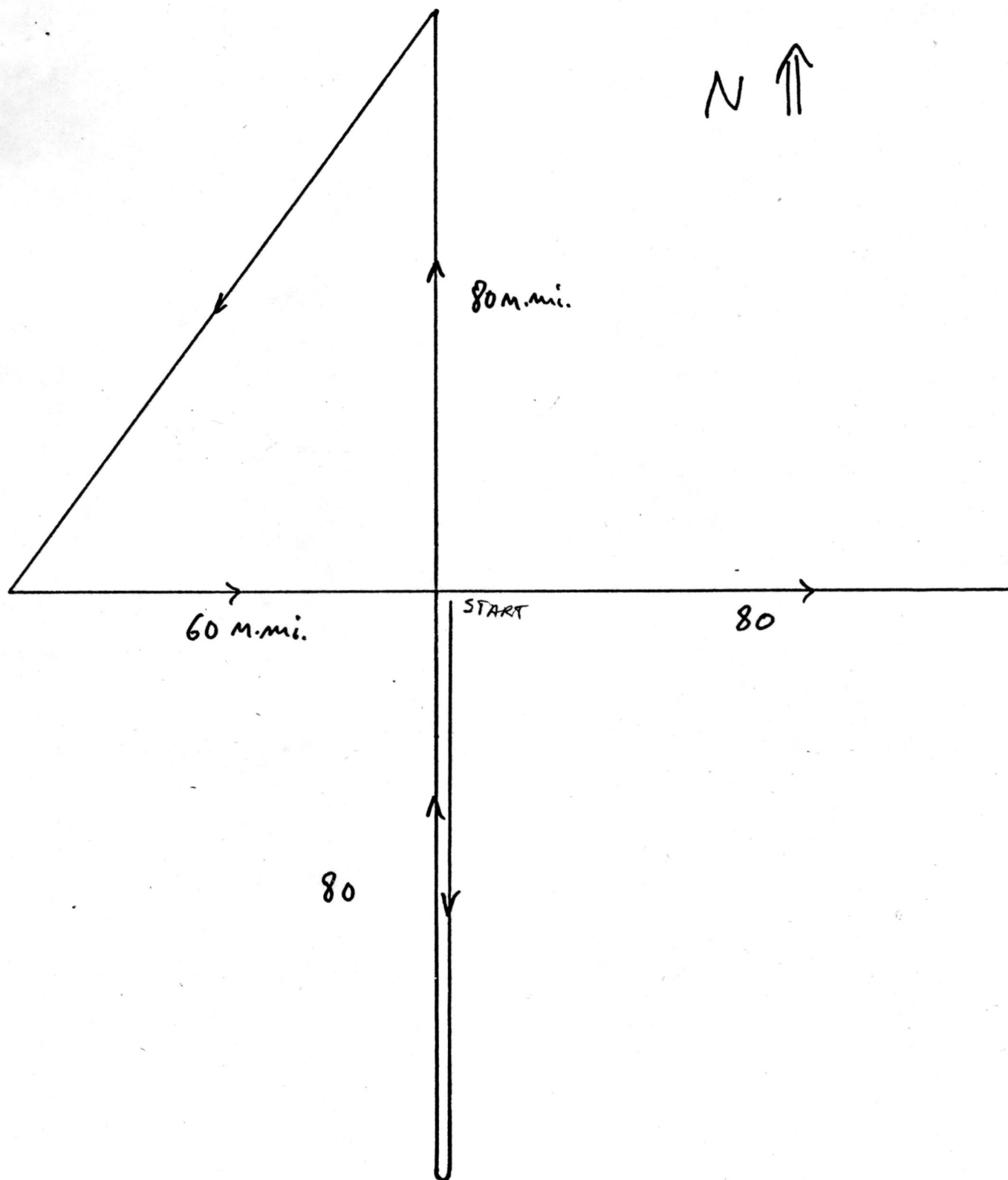
2 TIMES AT 24,000 ft. (-15°C)

41C

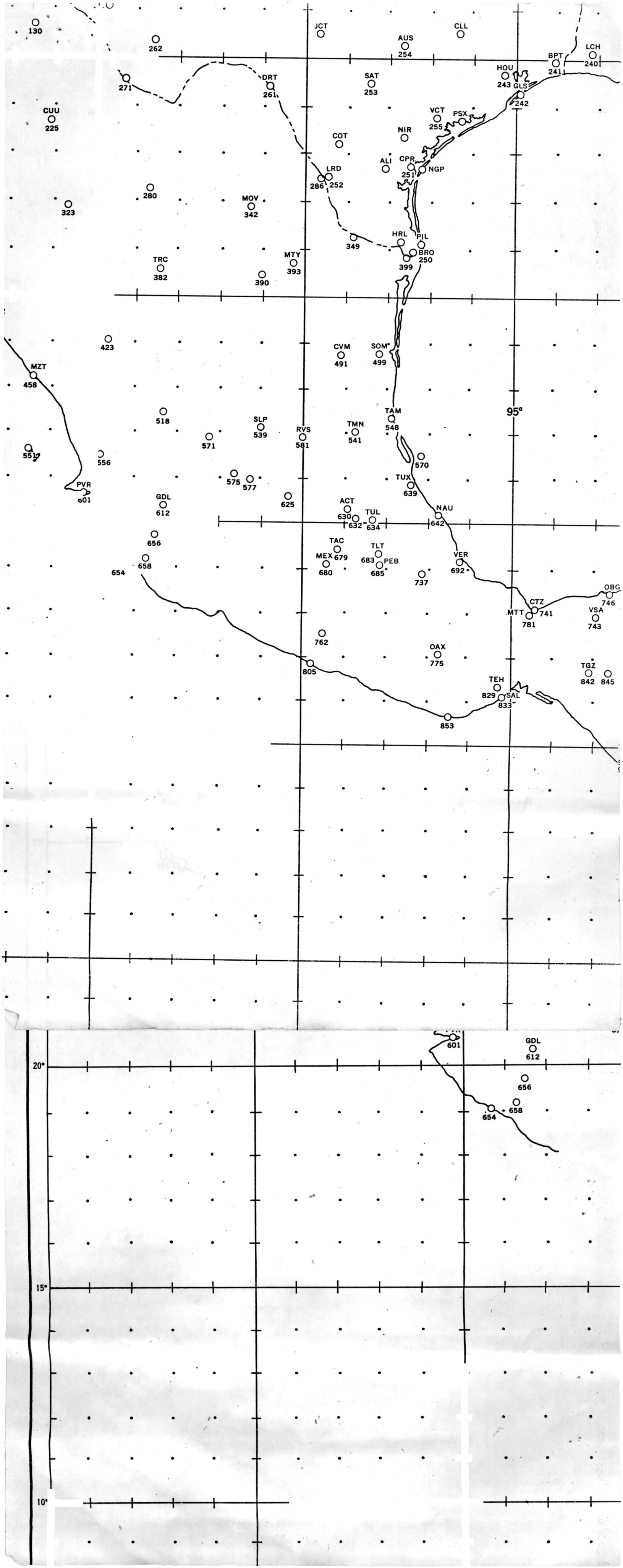
PATTERN - 2 TIMES AT 10,000 ft. (+10°C)

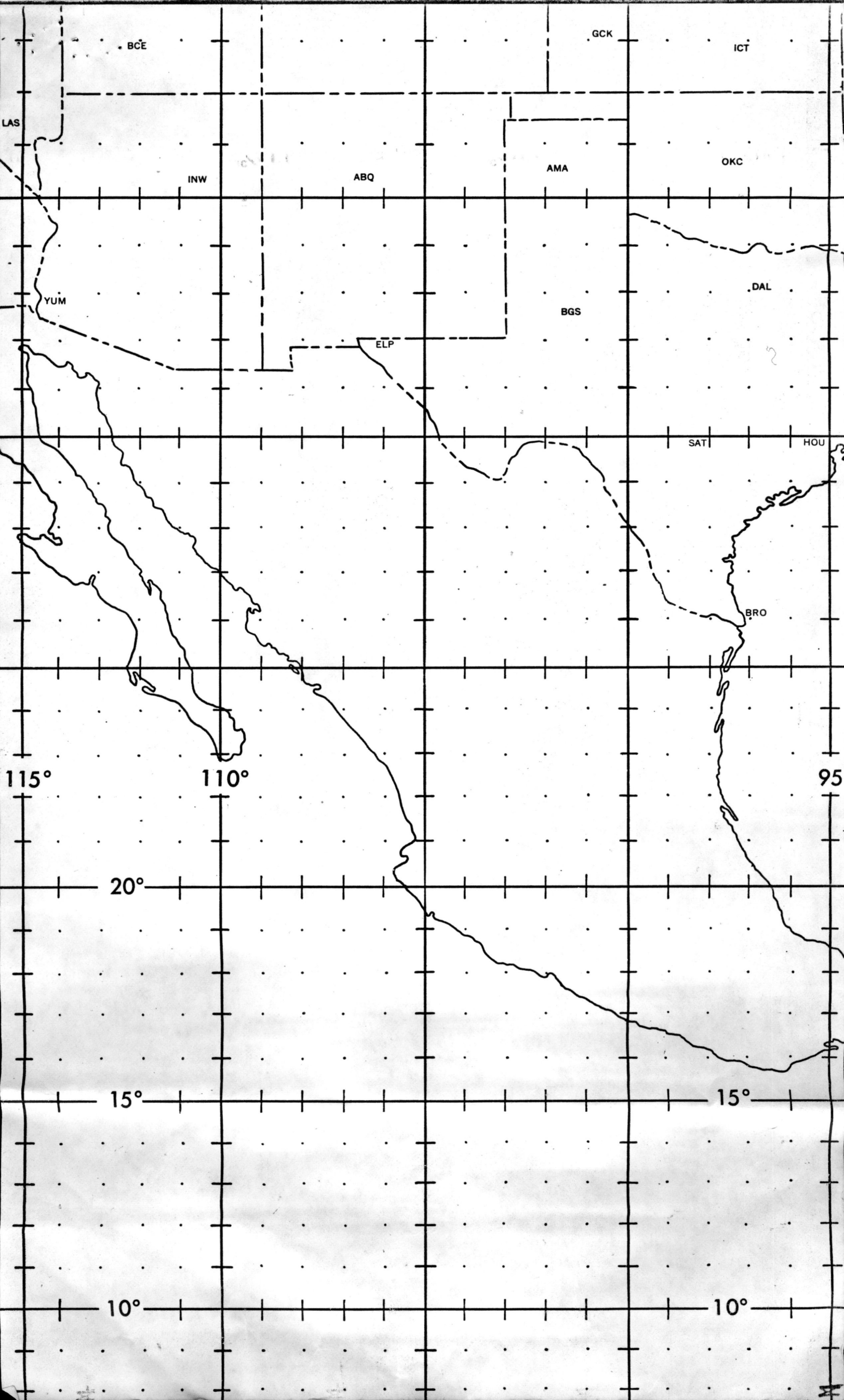


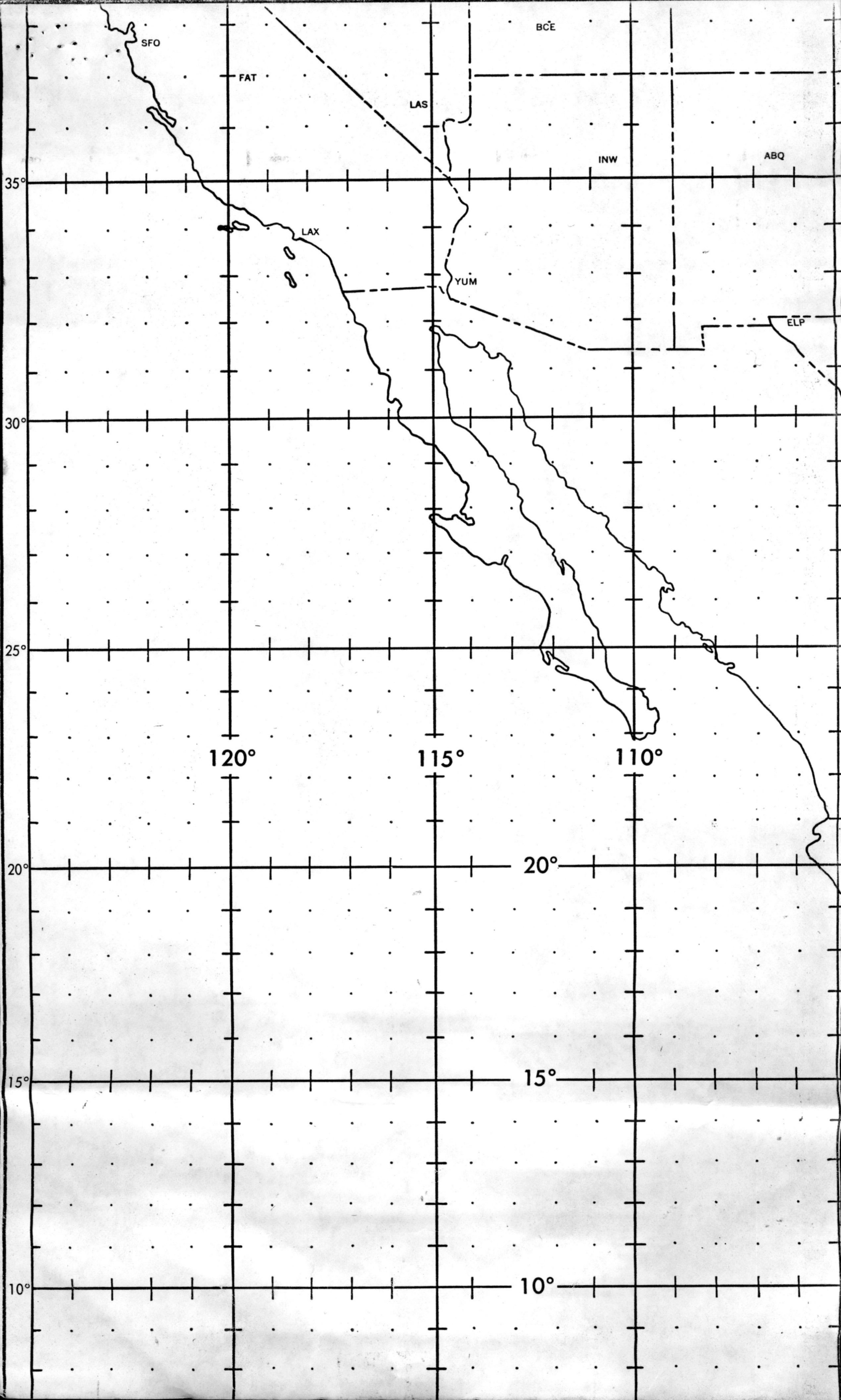
42 RF



C-130 (4K) 1000 ft A×BT pattern







National Aeronautics and
Space Administration

NASA

Ames Research Center
Moffett Field, California
94035

771005N

Reply to Attn of: SEM:211-12

October 20, 1977

Mr. Billy Lewis
NOAA/NHEML
P. O. Box 8265
Univ. of Miami Branch
Coral Gables, FL 33124

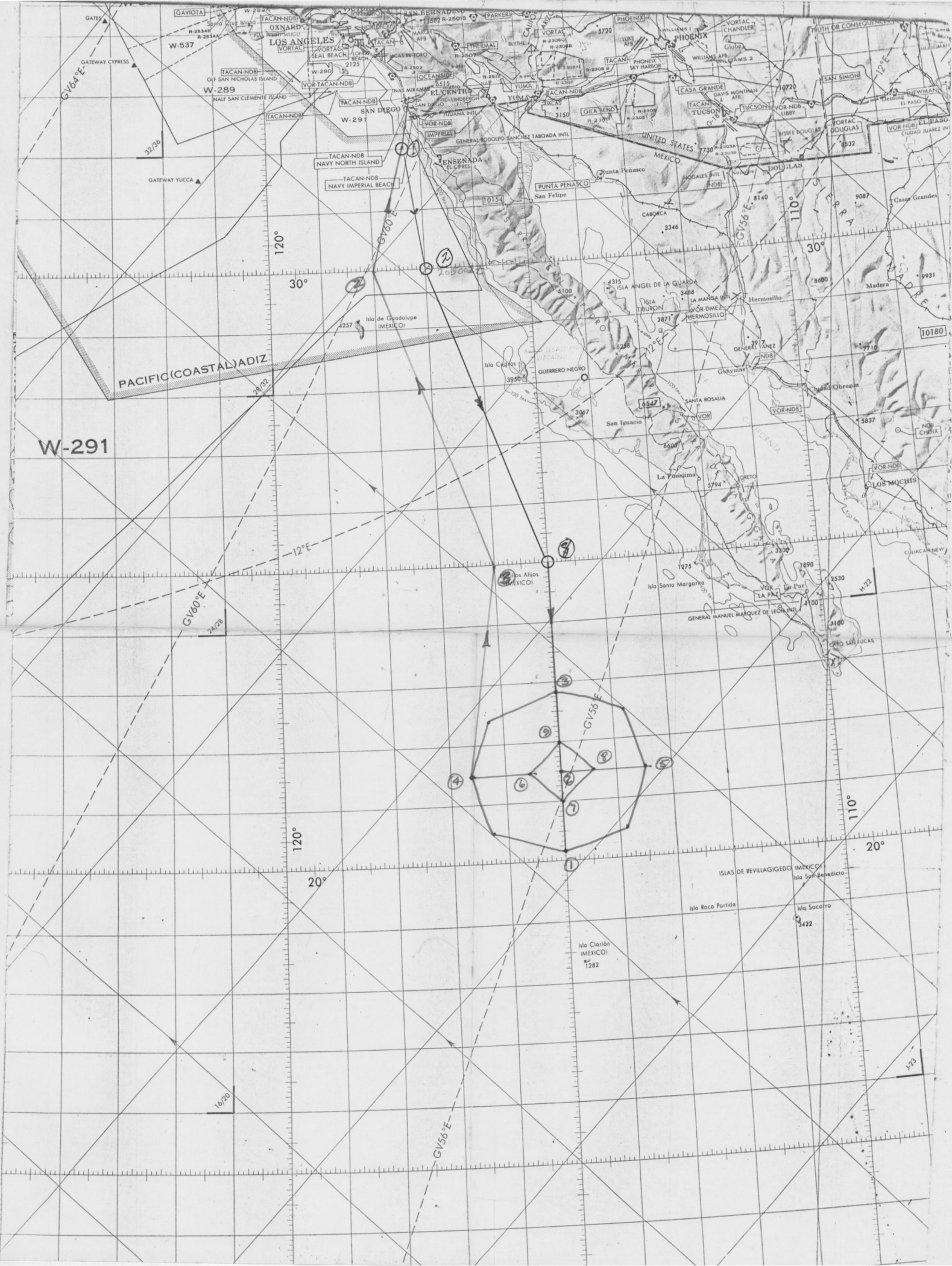
Dear Bill:

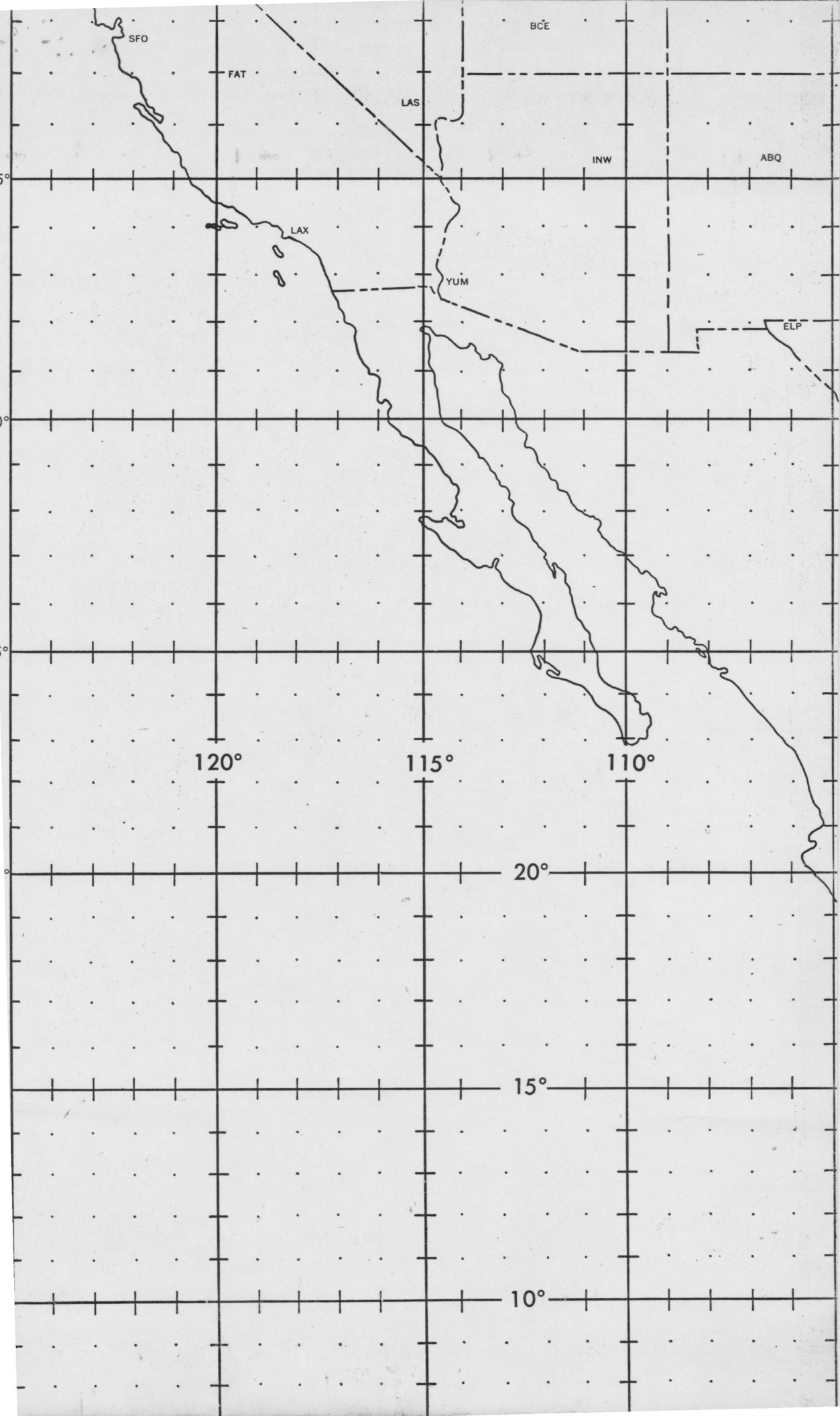
Enclosed is an overlay track plot for a GNC 8 map. The GNC 8 map covers the area off Baja California. To avoid confusion, please dispose of your track plot for the GNC 2 map.

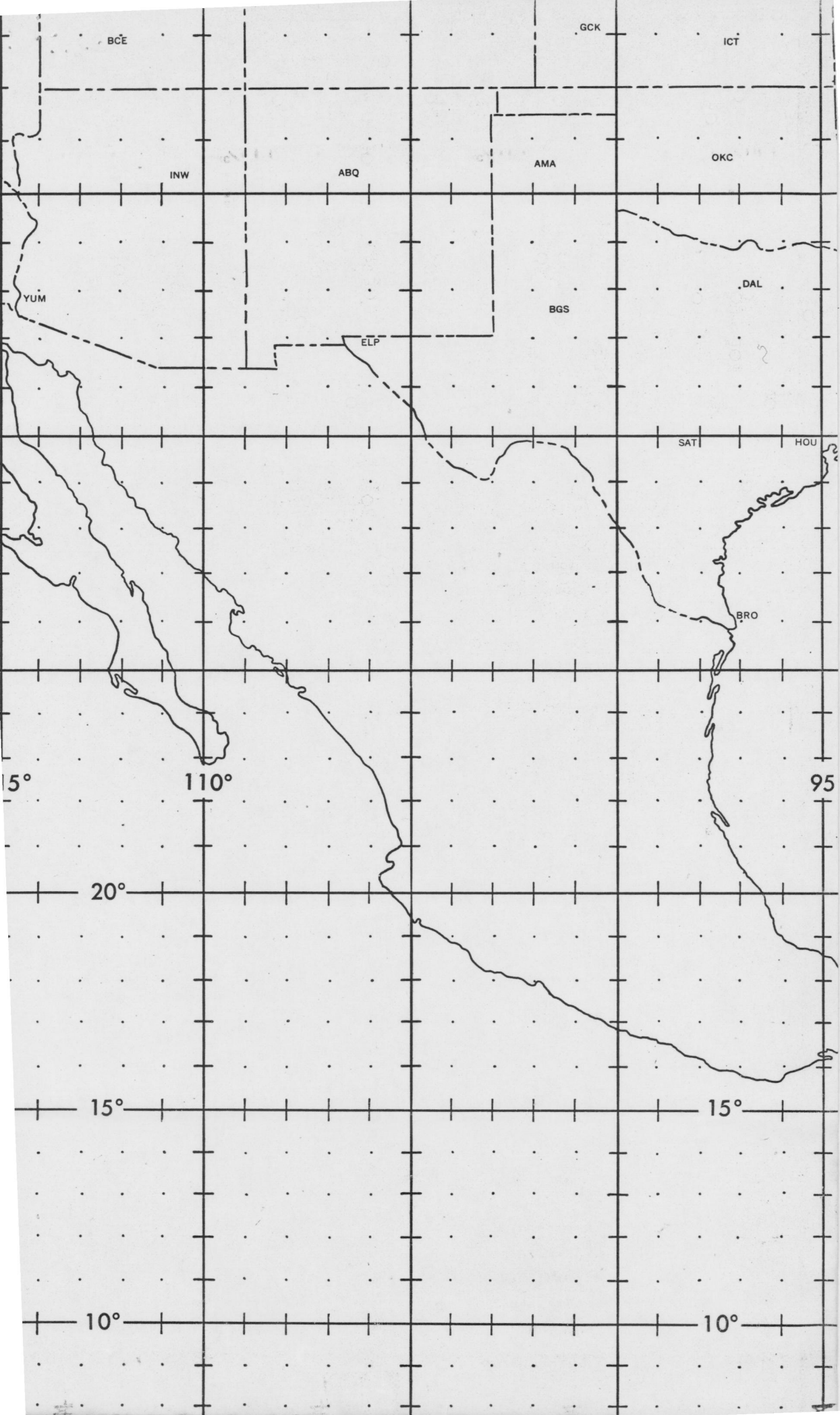
Sincerely yours,

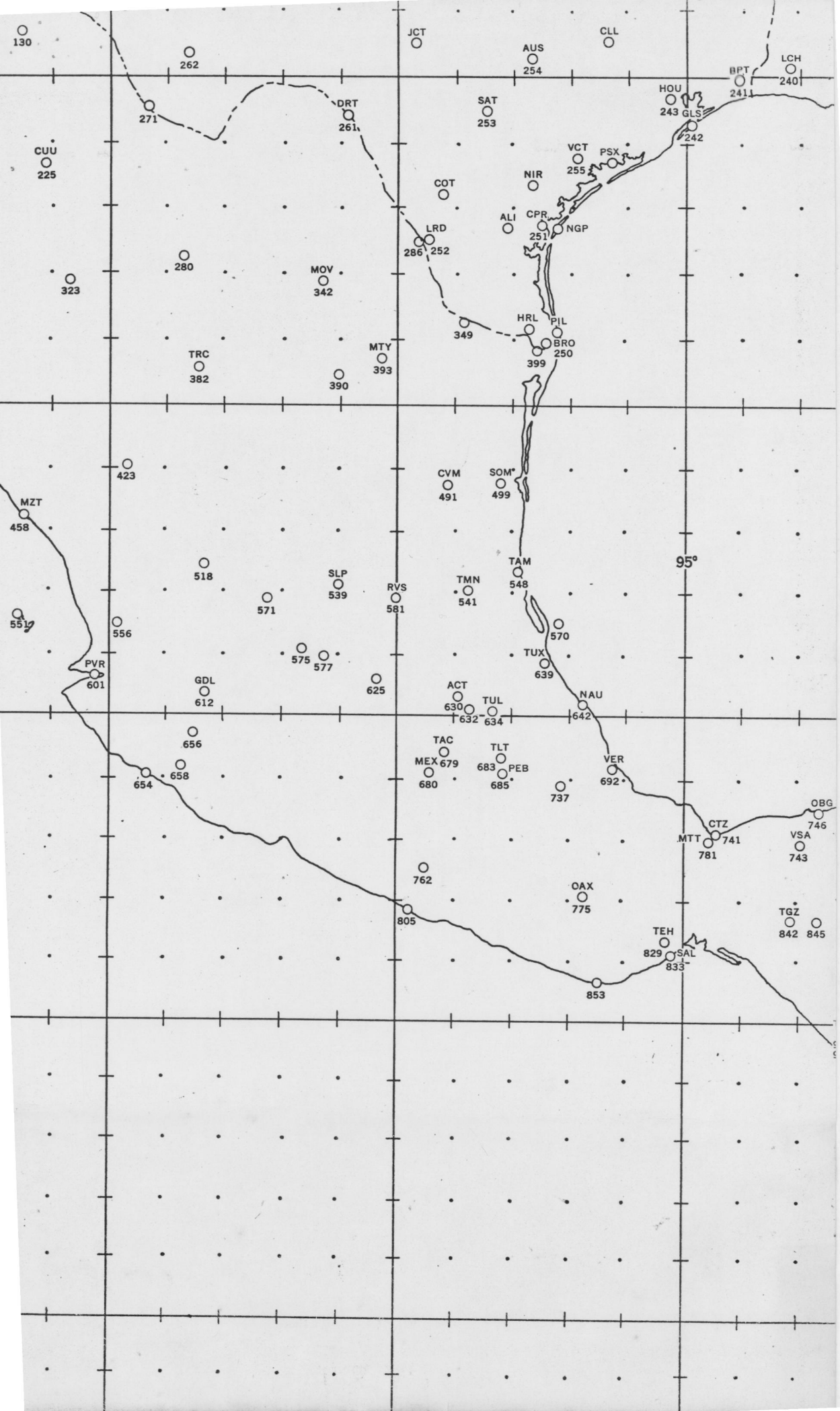
Earl V. Petersen

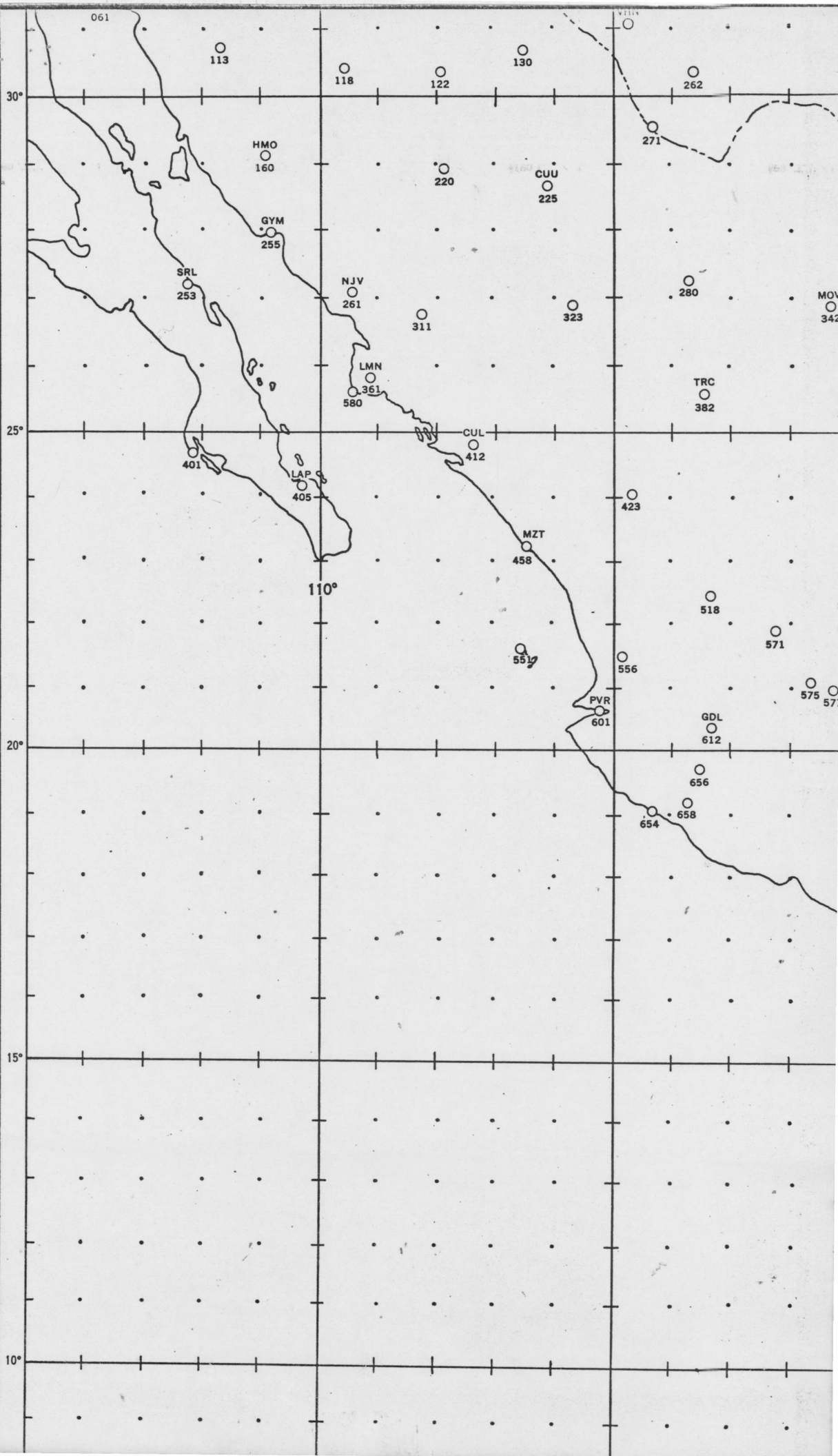
Earl V. Petersen

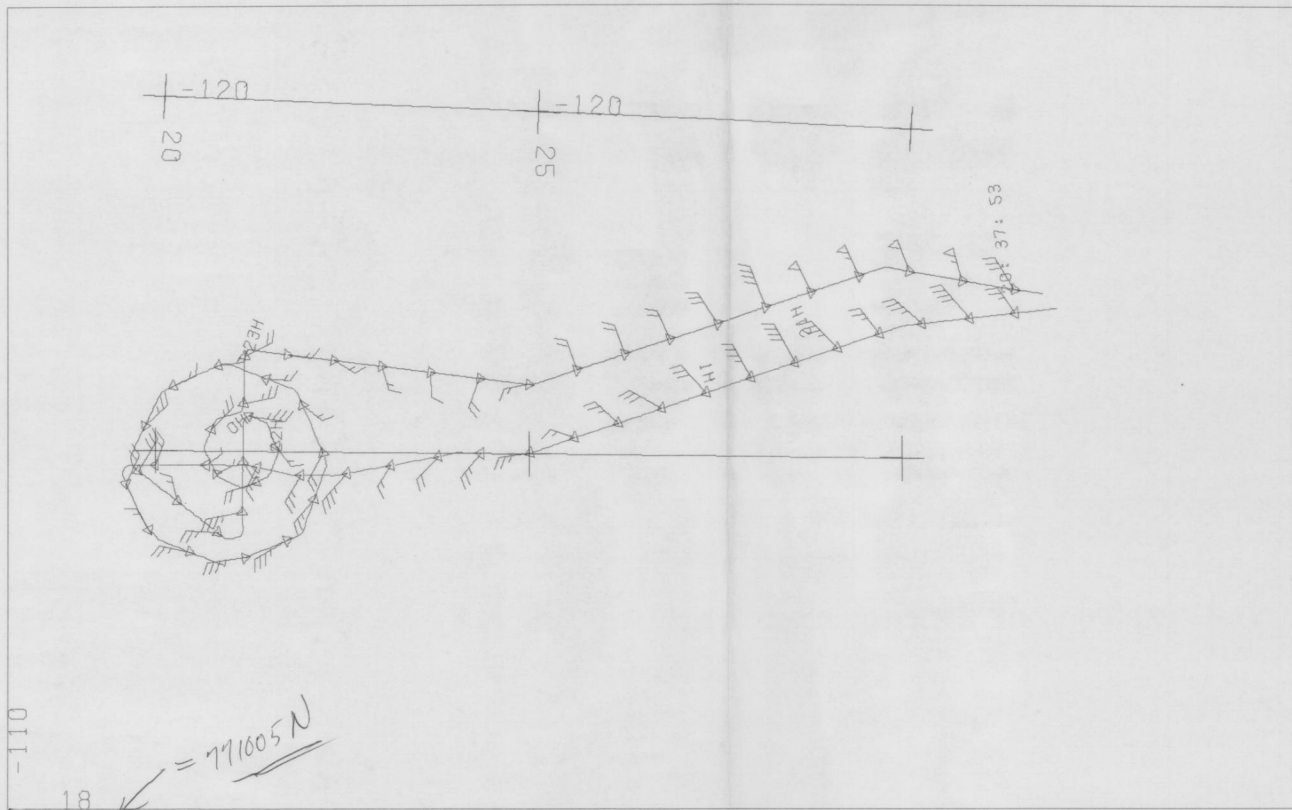










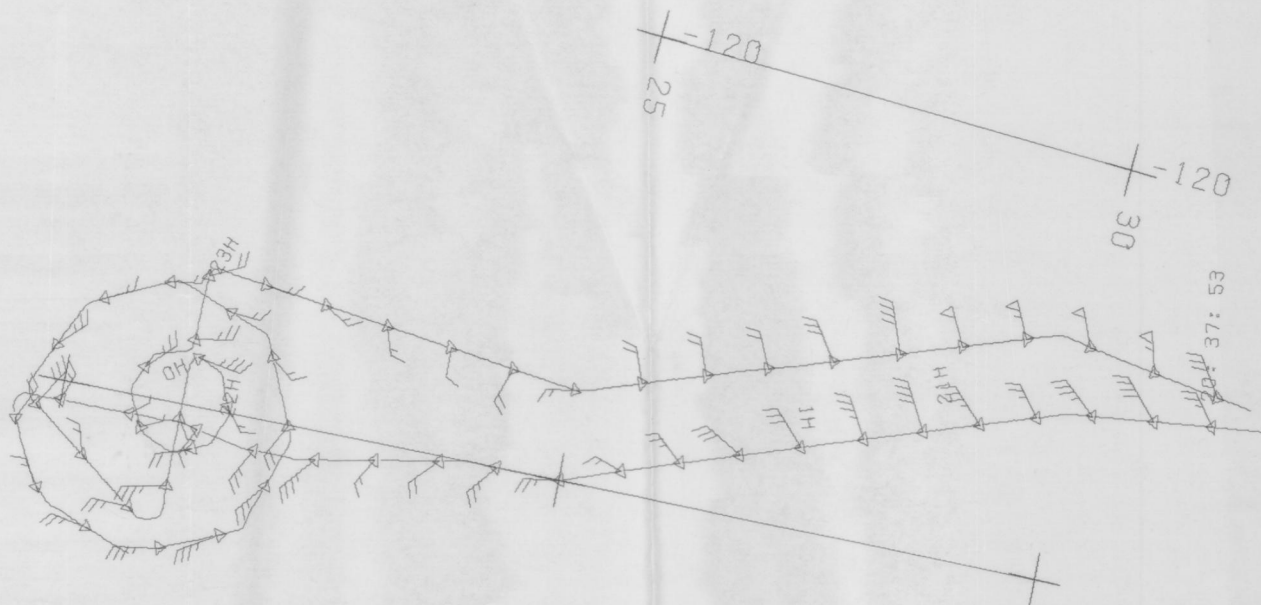


FLIGHT #15 HURRICANE II
OVERLAY FOR GNC 8

MIRAMAR/MIRAMAR
ROTATED BY 95. -1: 0: 0 TO 48: 0: 0 UT. SCALE=1:5.0E+06 TIME TICS EVERY 5.00 MINUTES

-110

19



FLIGHT #15 HURRICANE II MIRAMAR/MIRAMAR
 OVERLAY FOR GNC 2 ROTATED BY 90. -1: 0: 0 TO 48: 0: 0 UT. SCALE=1:5.0E+06 TIME TICS EVERY 5.00 MINUTES