

19770922HILPS
10F2

APPENDIX I.

OPERATIONAL CHECKLISTS

FORM I-1

Onboard Lead Project Scientist CHECKLIST

DATE Sept 22, 1977

AIRCRAFT 42F (P-3DH)

FLT 770922H1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Mallenger, Lewis, Black</u>	Gust Probe	<u>N.A.</u>
Cloud Physics	<u>Cunningham, Willoughby</u>	Omega Sonde	<u>Marvin Kempton</u>
AXBT	<u>N.A.</u>	Sys Eng	<u>None</u>
Hot Film	<u>N.A.</u>	Data Tech	<u>Brown</u>
Radar	<u>Lewis, Willoughby</u>	El Tech	<u>Fennell-Connor</u>
Flt DIR/MET	<u>DAVIS</u>	Other	

Time Off 1611Z

Location SAN JUAN

Time On 0035

Location San Juan

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
<u>7/22</u>	<u>16Z</u>	<u>16.5</u>	<u>68</u>					

C. Mission Briefing

2 by easterly wave pattern. at 1.5K and 10K. Find
a circulation center if one exists. 2 by cloud boxes
with our diagram. Get 18Z and 00Z fix on NHC.

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D. Equipment Status

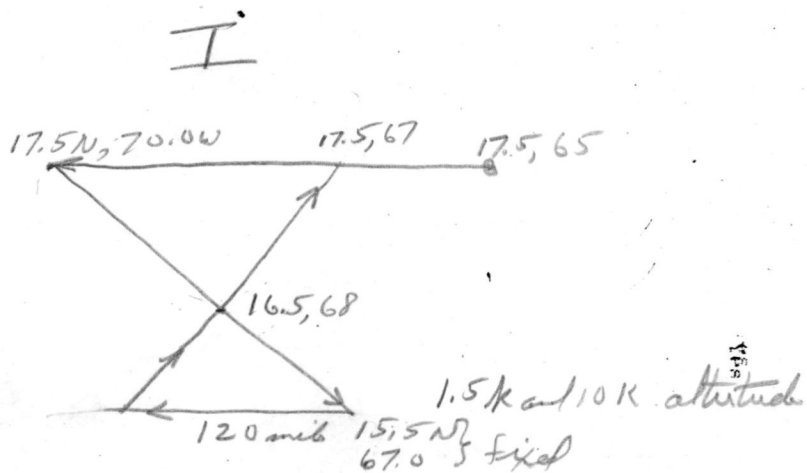
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	OK	OK	OK	
Radar	OK	OK	OK	
Cloud Physics	OK	OK	OK	
Data Sys	OK	OK	OK	
Omega Sondes	OK	OK	OK	
AXBT	N/A	N/A	N/A	
Gust Probe	N/A	N/A	N/A	
Hot Film	N/A	N/A	N/A	
Photography	N/A	N/A	N/A	

REMARKS

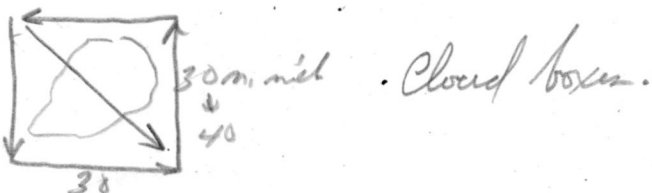
Radar integration set at $L F = 15$ noise = 31 Tail = 63
 PPI scope is not too good for tail radar
 presentation.

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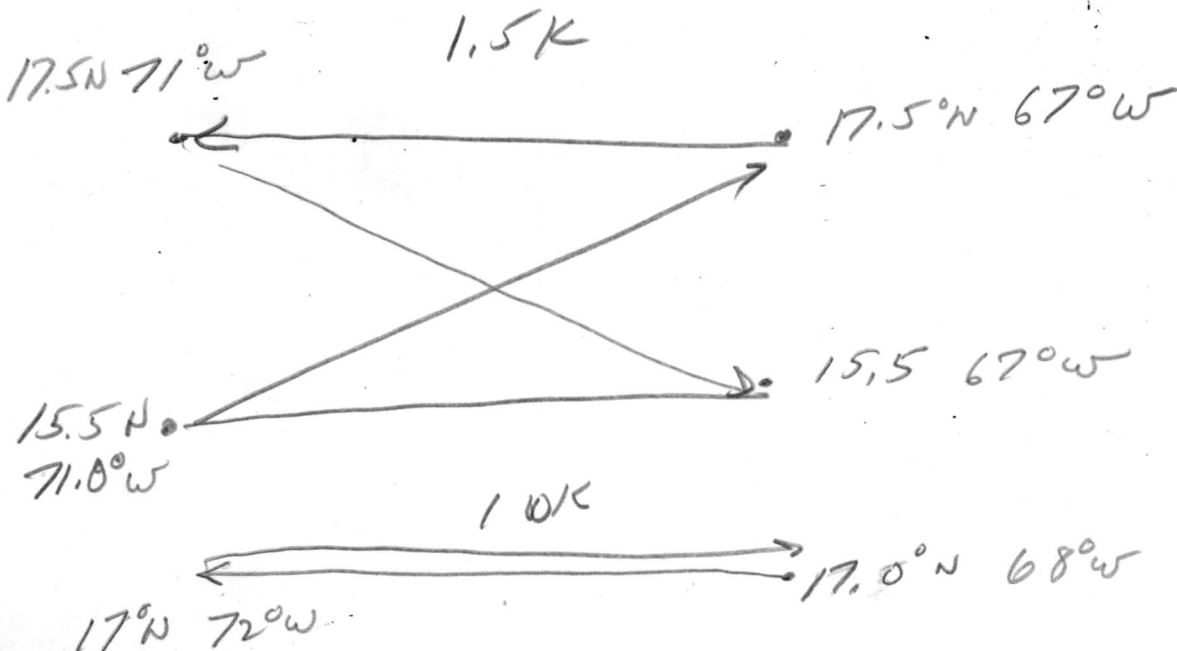
E. Proposed Flight Patterns



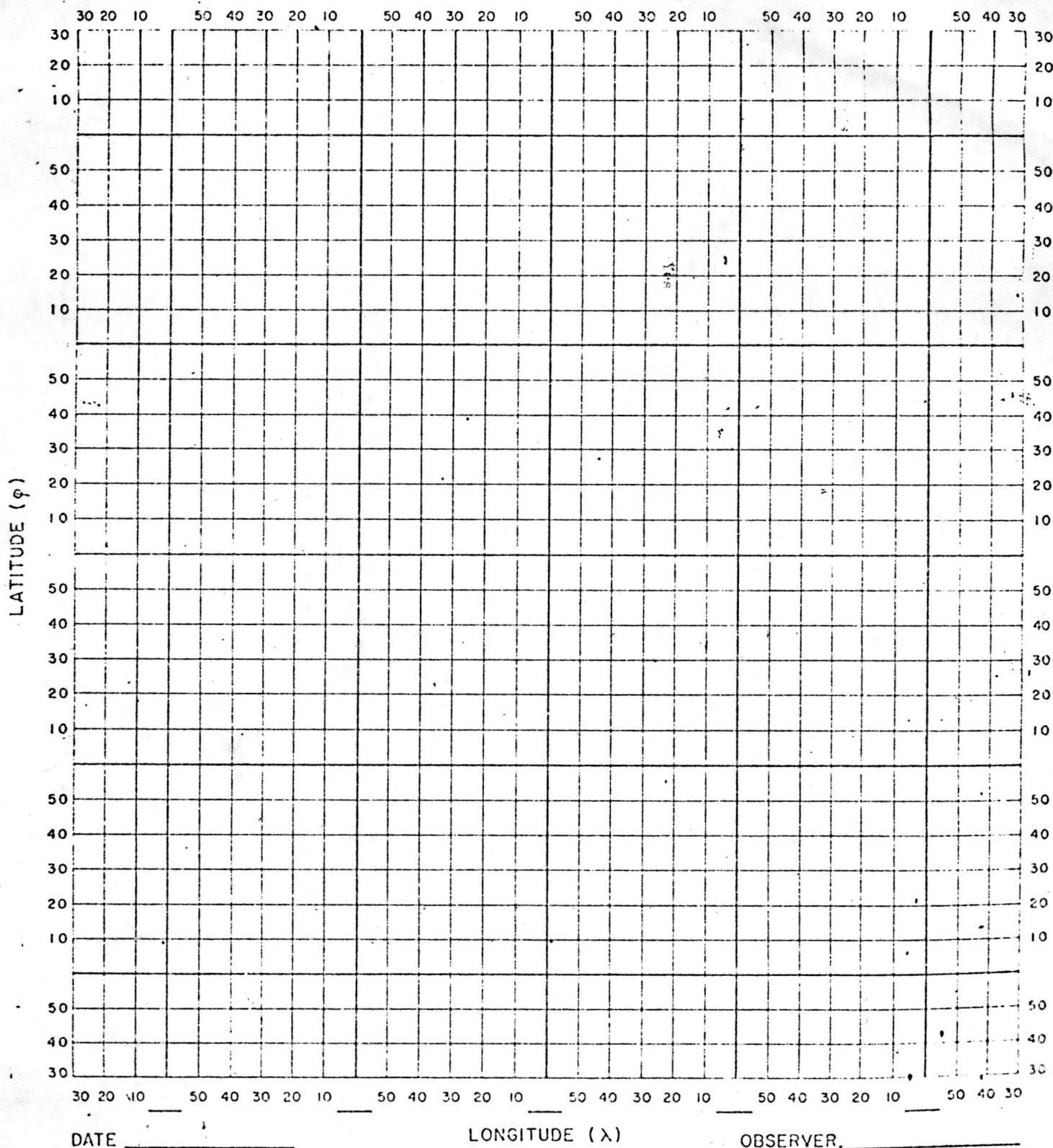
II



F. Actual Flight Patterns



HURRICANE RECCO PLOTTING CHART

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

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Nose		Lower Fuselage		Tail		Video Recorder	
D11	16372	D11	16372	D21	16372	1	194700Z
D12	18092	D12	18092	D22	1809	2	2118Z
D13	19302	D13	19302	D2-3	1938		
D14	2100362	D14	2100362	D24	210320		
D15	2230			D25	2230		

Times of Seeding Runs, etc.

[illegible]

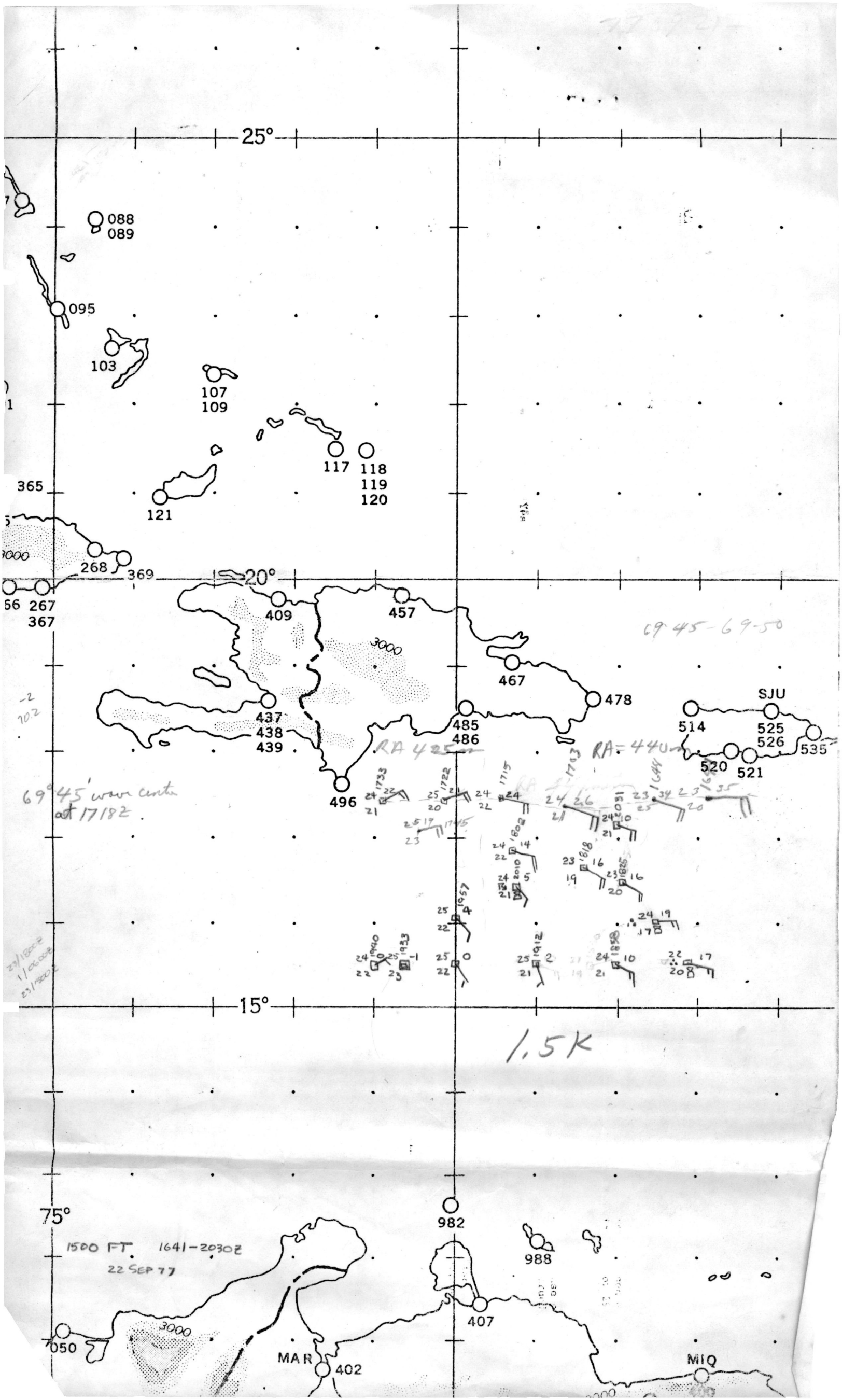
DMTR 2

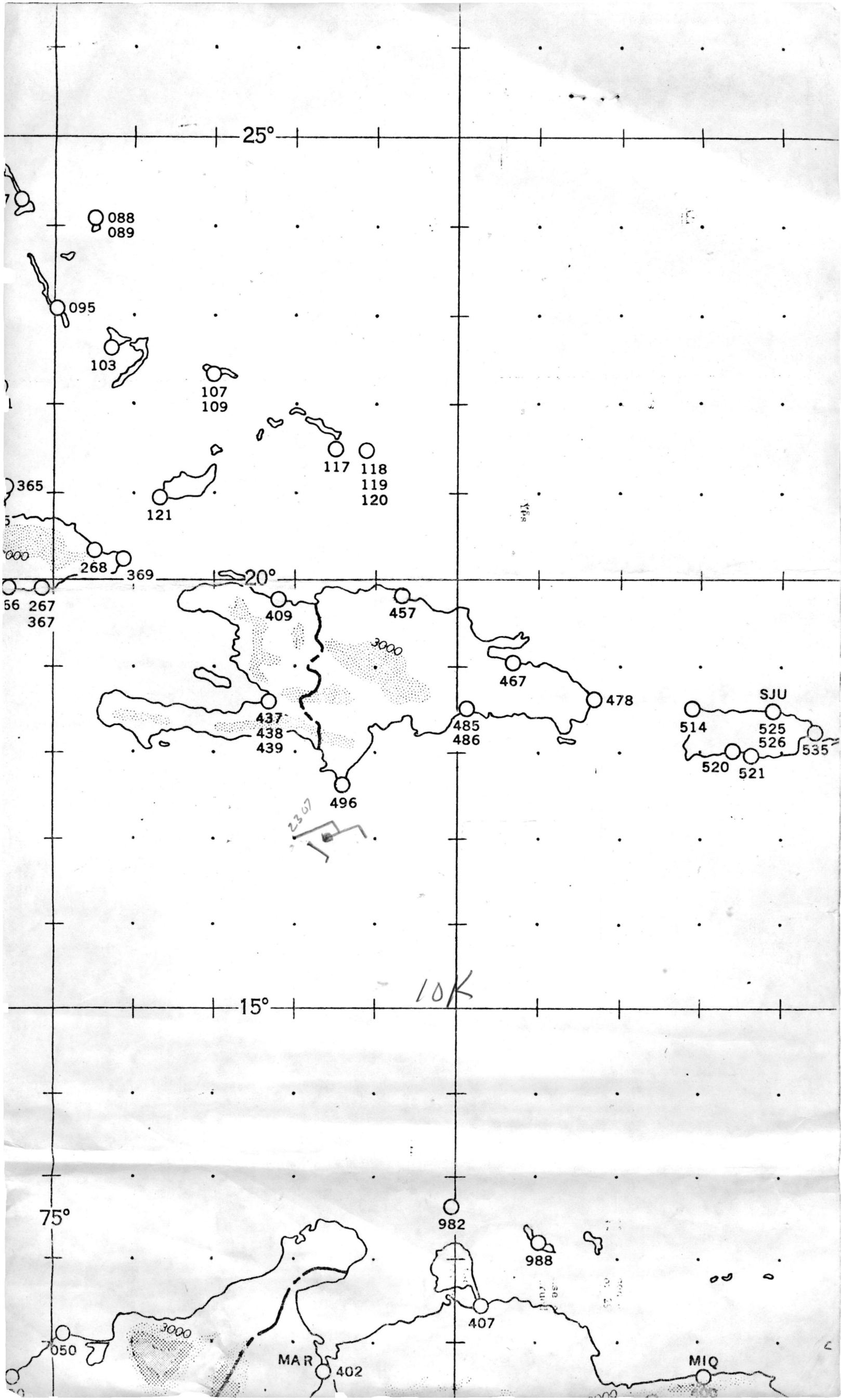
[illegible]

FLIGHT 770922H1
AIRCRAFT 42F
DATE 9/22/77
DAY # 265

TOTAL REELS	
VTR	
DMTR 1	
DMTR 2	

[illegible][illegible]





APPENDIX I.

OPERATIONAL CHECKLISTS

A770922H1-2PS
2 OF 2

FORM I-1

Onboard Lead Project Scientist CHECKLIST

DATE

9/22/77

AIRCRAFT

42 RF

FLT

A. Participants

Function
 Lead Proj. Sci.

Participant

HALLINGER

Cloud Physics

AXBT

Hot Film

Radar

Flt DIR/MET

Function
 Gust Probe

Omega Sonde

Sys Eng

Data Tech

El Tech

Other

Participant

—

—

O'CONNOR

Time Off

22/1608

Location

STC

Time On

Location

STC

B. Past and Forecast Storm Position - Observed Positions

DateTimeLatLonDateTimeLatLonMSLP

C. Mission Briefing

Find wave axis. Look for center. Do low + mid level
 pattern in convection. The old physics & pattern.
 18Z + 00Z for responsibility

9/22/77
42 RFD. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collect</u>
Aircraft	OK			
Radar	OK			
Cloud Physics	OK			
Data Sys	OK			
Omega Sondes	—			
AXBT	—			
Gust Probe	?			
Hot Film				
Photography				

REMARKS

E. Proposed Flight Patterns

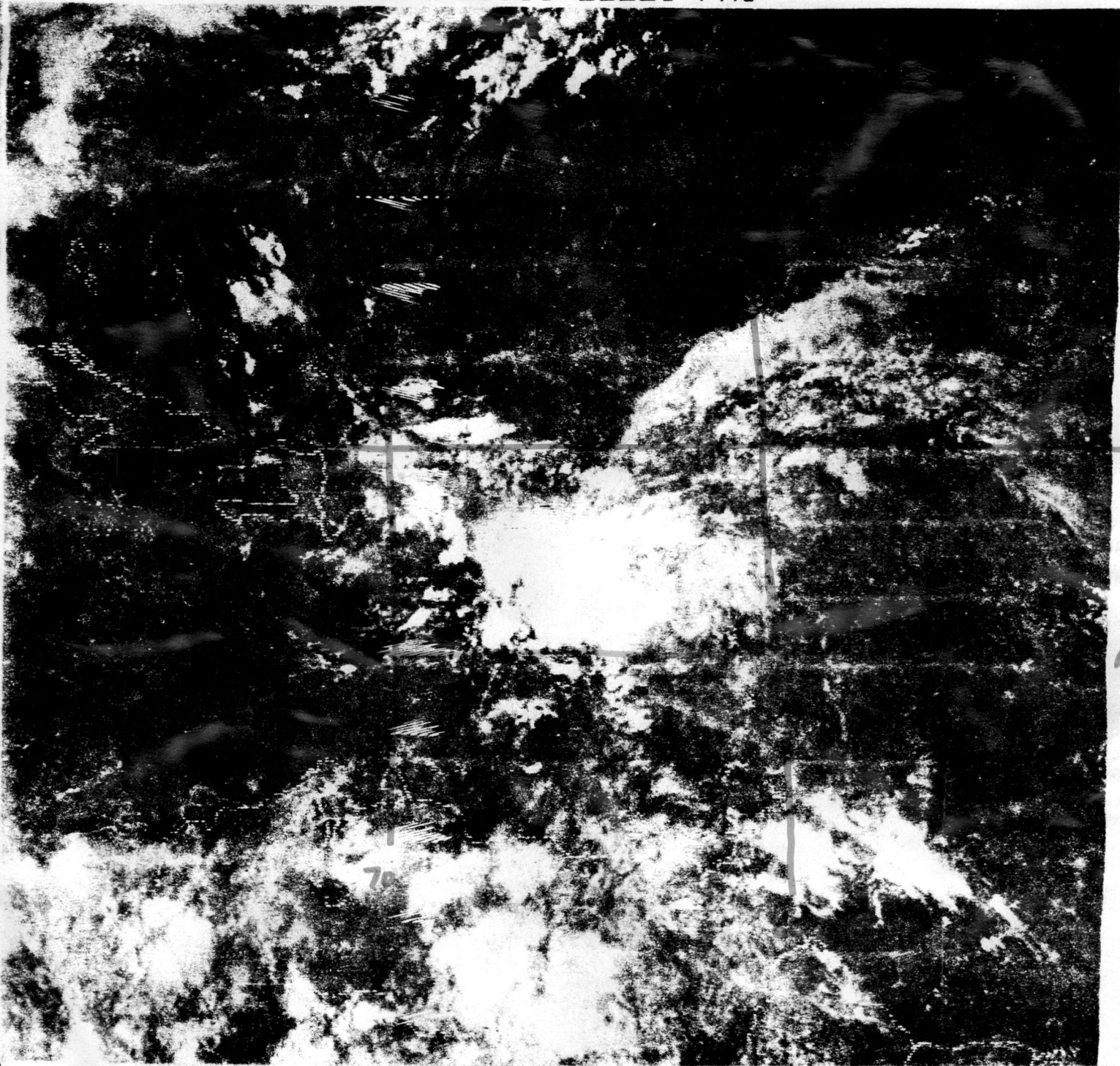
9/22/77
42RF.

F. Actual Flight Patterns

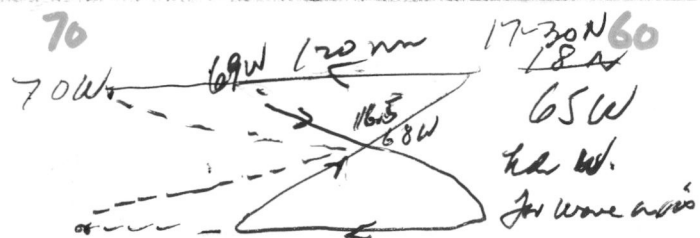
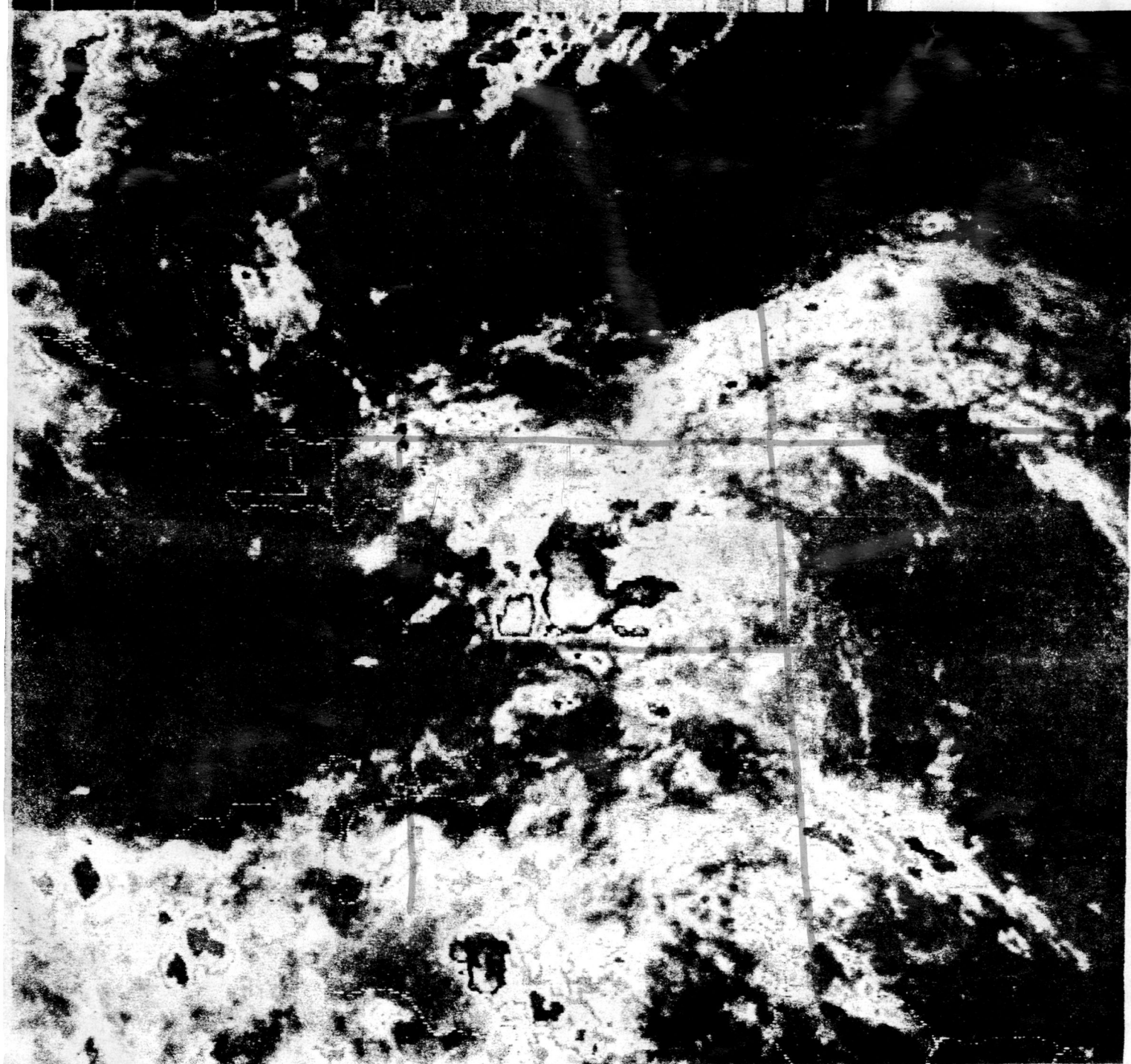
Did one 1500 ft. pattern (Z)

One 1500 ft cloud physics box with two diagonals. —

1300 22SE77 14A-1 03651 2221 PR6



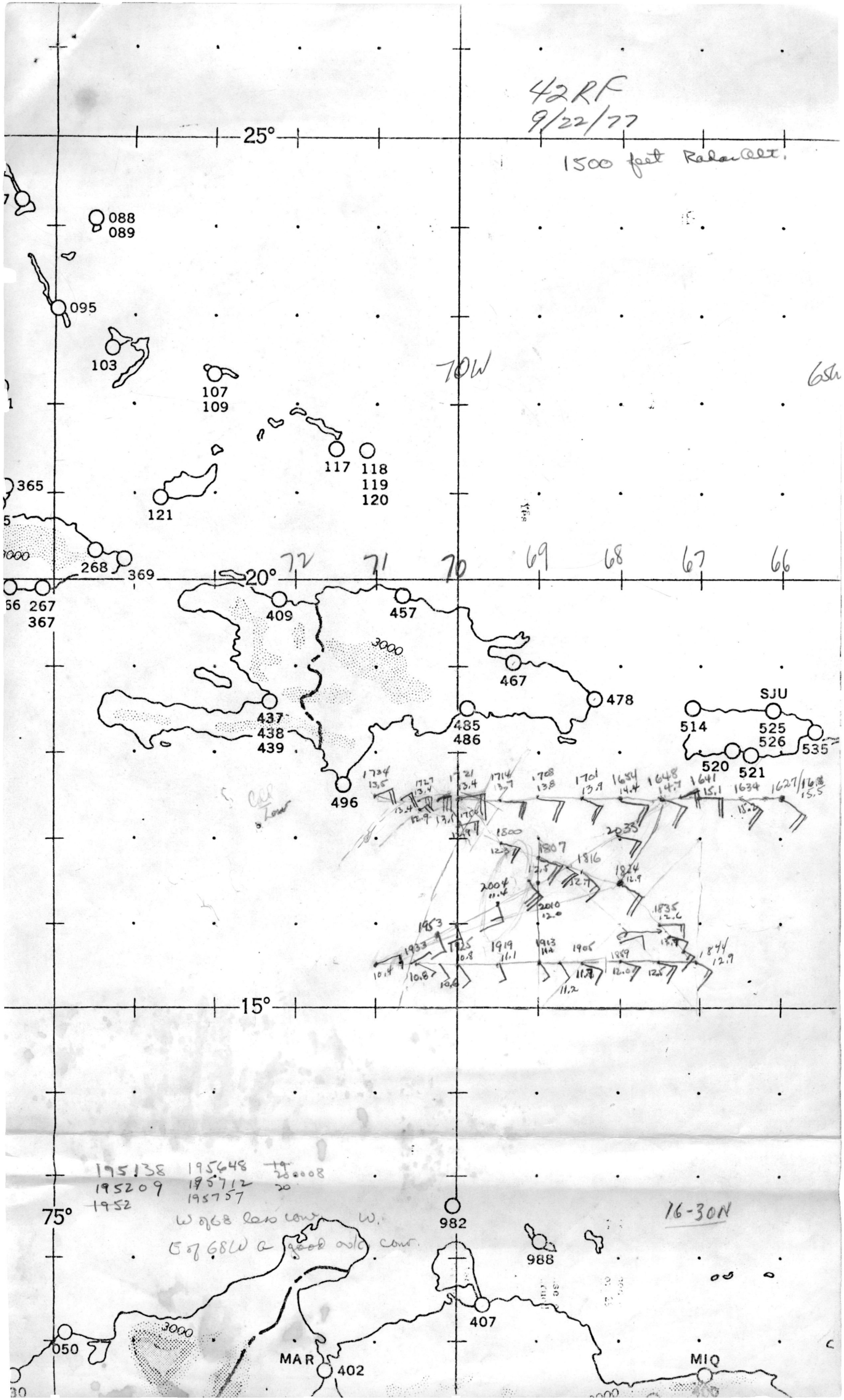
1330 22SE77 14E-1MB 03651 22221 PR1

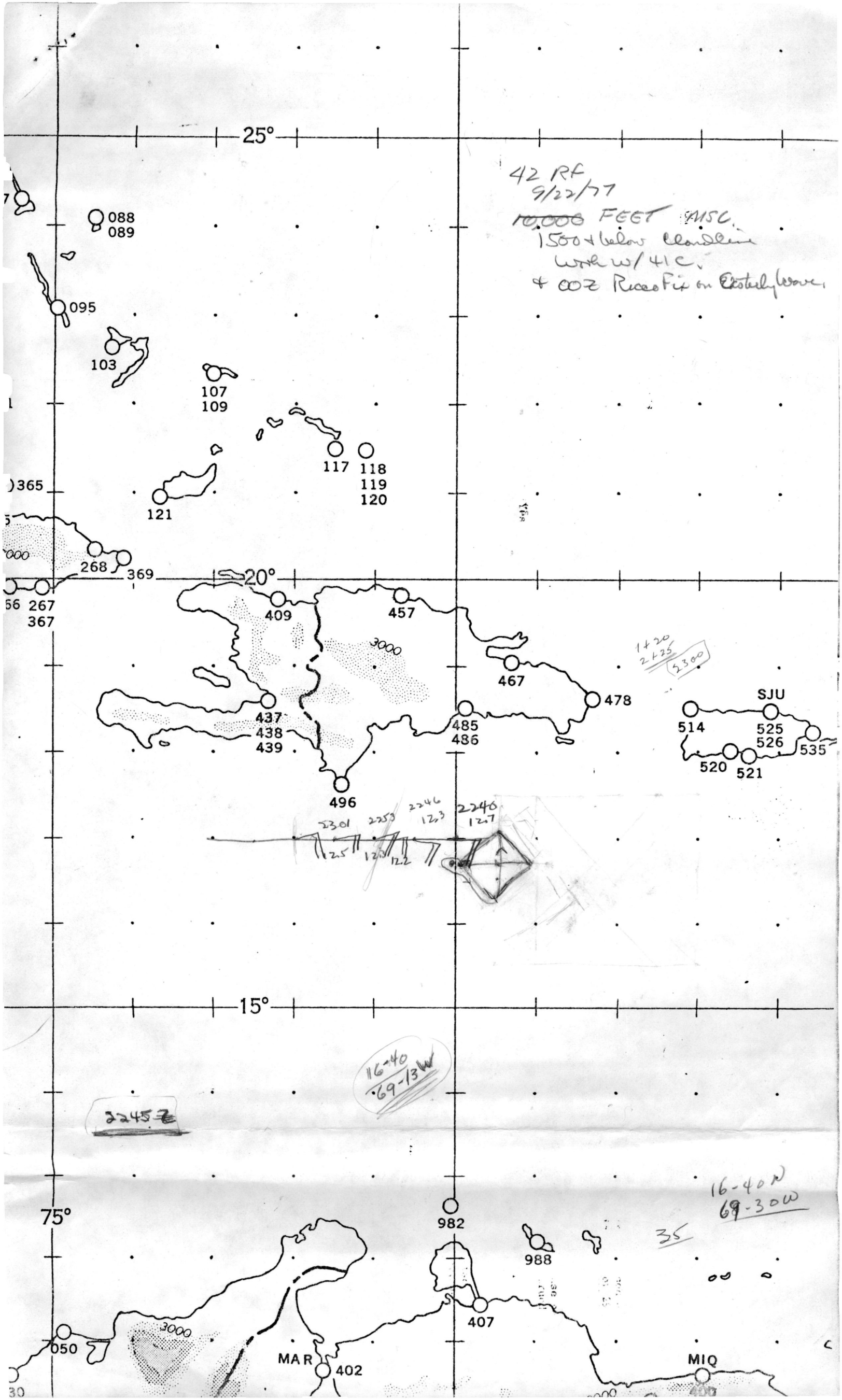


16.5N
68 W Center

42 RF
9/22/77

1500 feet Radar alt.





25°

42 RF
9/22/77
10,000 FEET MISC.
1500+ below baseline
work w/ 41C.
+ 002 Rice Fix on Easterly wave.

088
089

095

103

107
109

117

118
119
120

121

365

000

56 267
367

268

369

20°

409

457

467

478

437

438

439

485

486

496

2301

2253

2246

12.3

2240

12.7

1420
2425
5300

SJU

514

525

526

535

520

521

15°

16-40
69-13W

2245Z

75°

050

3000

MAR

402

982

988

407

MIQ

16-40N
69-30W

35