

19920921HI-LPS

in room
9-operator
Long Distance

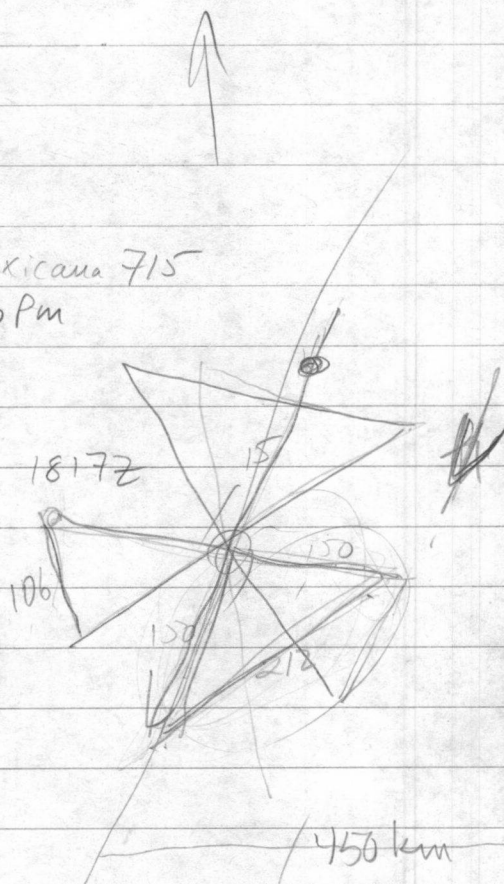
01 - 52 - 322 - 41700

RAMADA INN

42RF

Jim
Carswell
Andy Paylor

Mexicana 715
9:30 PM

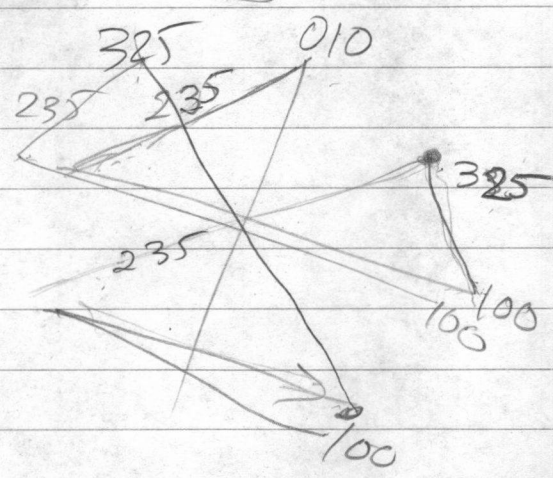


7. 300km 7/21/2
300km 43 min
300km 43 +106
212km 30 15min
1 Fig 4 116 - 2h
+15min

Tell Jim Carswell
set incidence
angle to match
satellite

Pete
says

5000ft



5000 ft

Tina

7/21 11.9 108.3 1130Z

9/21 12.2 108.6 18Z

9/22 06Z

E.2 Lead Project Scientist (On-Board)

920921 H1

E.2.1 Preflight

- ☒ 1. Participate in general mission briefing.
- ☒ 2. Determine specific mission and flight requirements for assigned aircraft.
- ☒ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.
- ☒ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ☒ 5. Meet with AOC flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- ☒ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

- ☒ 1. Confirm from AOC flight director that satellite data link is operative (information).
 - ☒ 2. Confirm camera mode of operation.
 - ☒ 3. Confirm data recording rate.
 - ☒ 4. Complete Form E-2.
- NHC & AOC verified ASDC link
Sent 1 vortex after
last fix*

E.2.3 Postflight

- ☐ 1. Debrief scientific crew.
- ☐ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- ☐ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ☐ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- ☐ 5. Determine next mission status, if any, and brief crews as necessary.
- ☐ 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Check List

Date 9/21/92 Aircraft 42RF Flight ID 920921 #1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Mar/cs</u>	Flight Director	<u>Bogert</u>
Cloud Physics	<u>-</u>	Pilots	<u>Ticknor/Philippsborn</u>
Radar	<u>Burpee/Dodge</u>	Navigator	<u>Strong</u>
Workstation	<u>-</u>	Sys. Engr.	<u>Wade/Zeke</u>
Photographer	<u>-</u>	Data Tech.	<u>Leno/Ramos</u>
Omegasonde	<u>-</u>	El. Tech.	<u>Roles</u>
AXBT/AXCP	<u>-</u>	Other	<u>Marvin</u> (Falcon Associates) <u>Sullivan</u> (Fall Hudson radio)
<u>UMAss Carswell/Paylor</u>			
Take-Off	<u>1710</u>	Location	<u>Puerto Vallarta</u>
		Landing	<u>2357</u>
		Location	

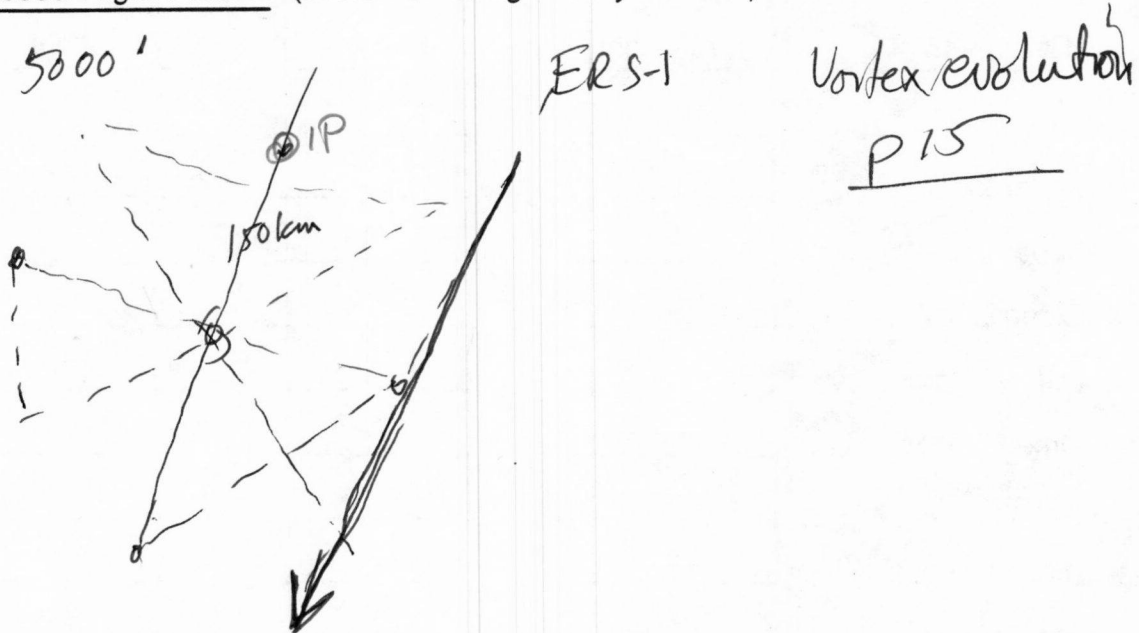
B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>9/21 1130Z</u>	<u>11.9</u>	<u>108.3</u>		<u>60-65 kts</u> <u>sub</u>
<u>9/21 18Z</u>	<u>12.2</u>	<u>108.6</u>		
<u>9/21 15Z</u>	<u>11.8</u>	<u>108.1</u>		

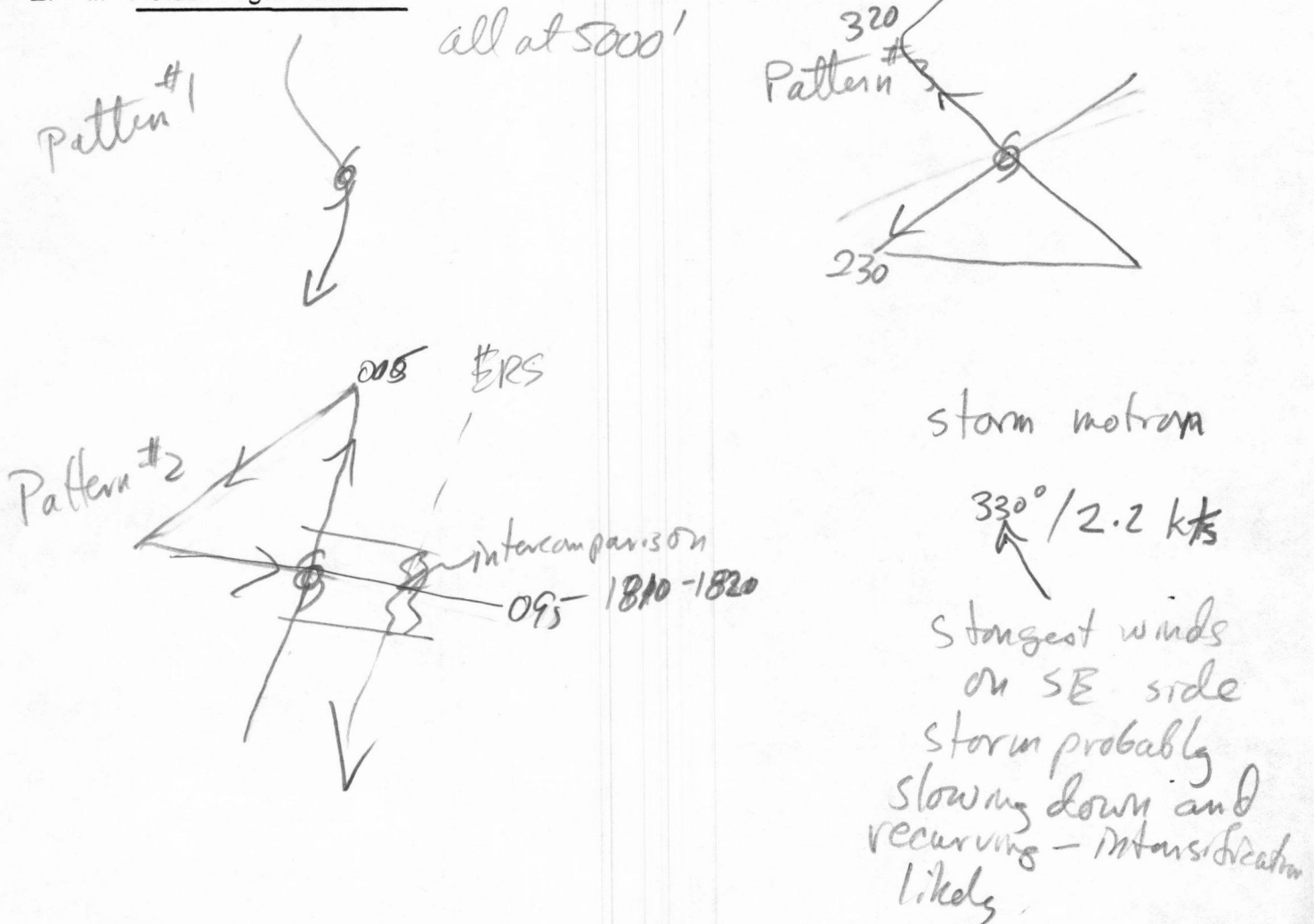
C. Mission Briefing

Vortex evolution / ERS-1 overflight
see p14-15 in Ops plan
at 5000' / 150 km radius legs

E. I. Proposed Flight Pattern (sketch or designate by number)



E. II. Actual Flight Pattern



D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	↑	↑	↑
Radar/LF	↑	↑	↑
Radar/TA (Doppler)	↑	TA R/T Swapped	↑
Cloud physics	2D-C problems	No 2D-C	No 2D-C
Data system	↑	↑	↑
Omegasondes	—	—	—
AXBT/AXCP	—	—	—
Workstation	—	—	—
Photography	Hasselblad ↑ Side cameras	↑	↑

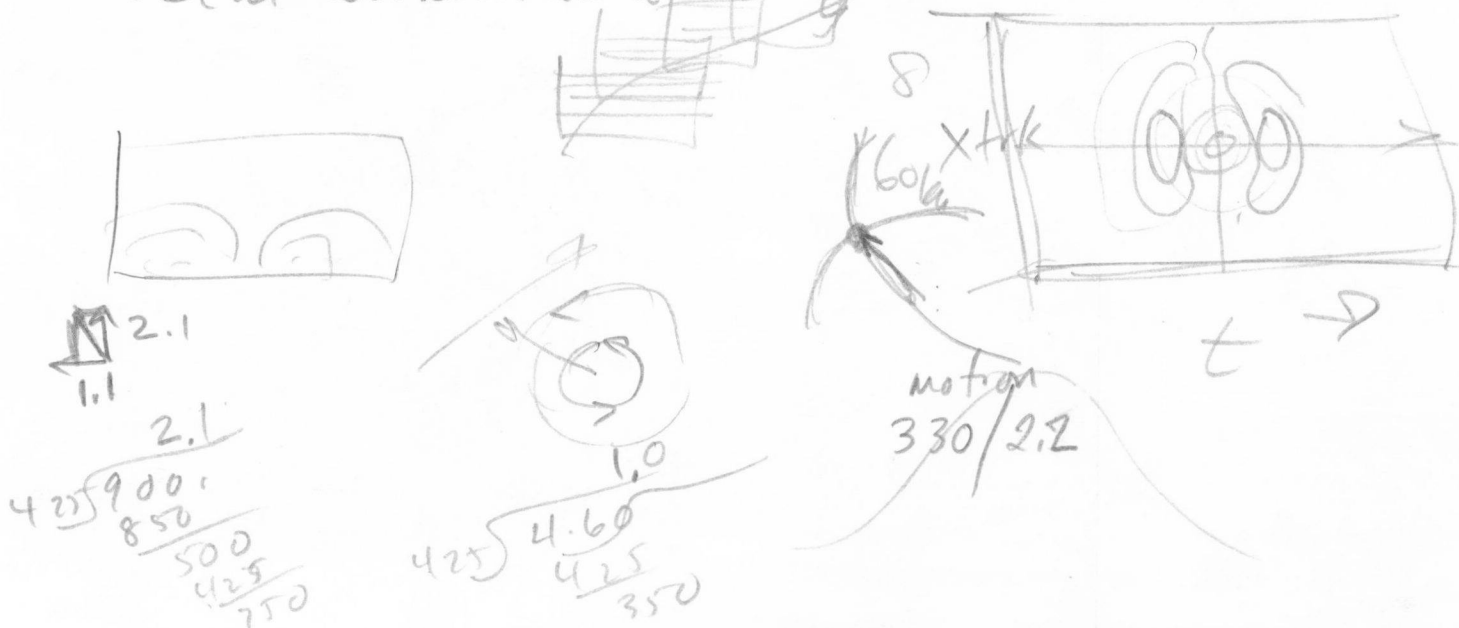
Tapes

7
1 DAT
1725-2204

Minolta has no batteries!!!!

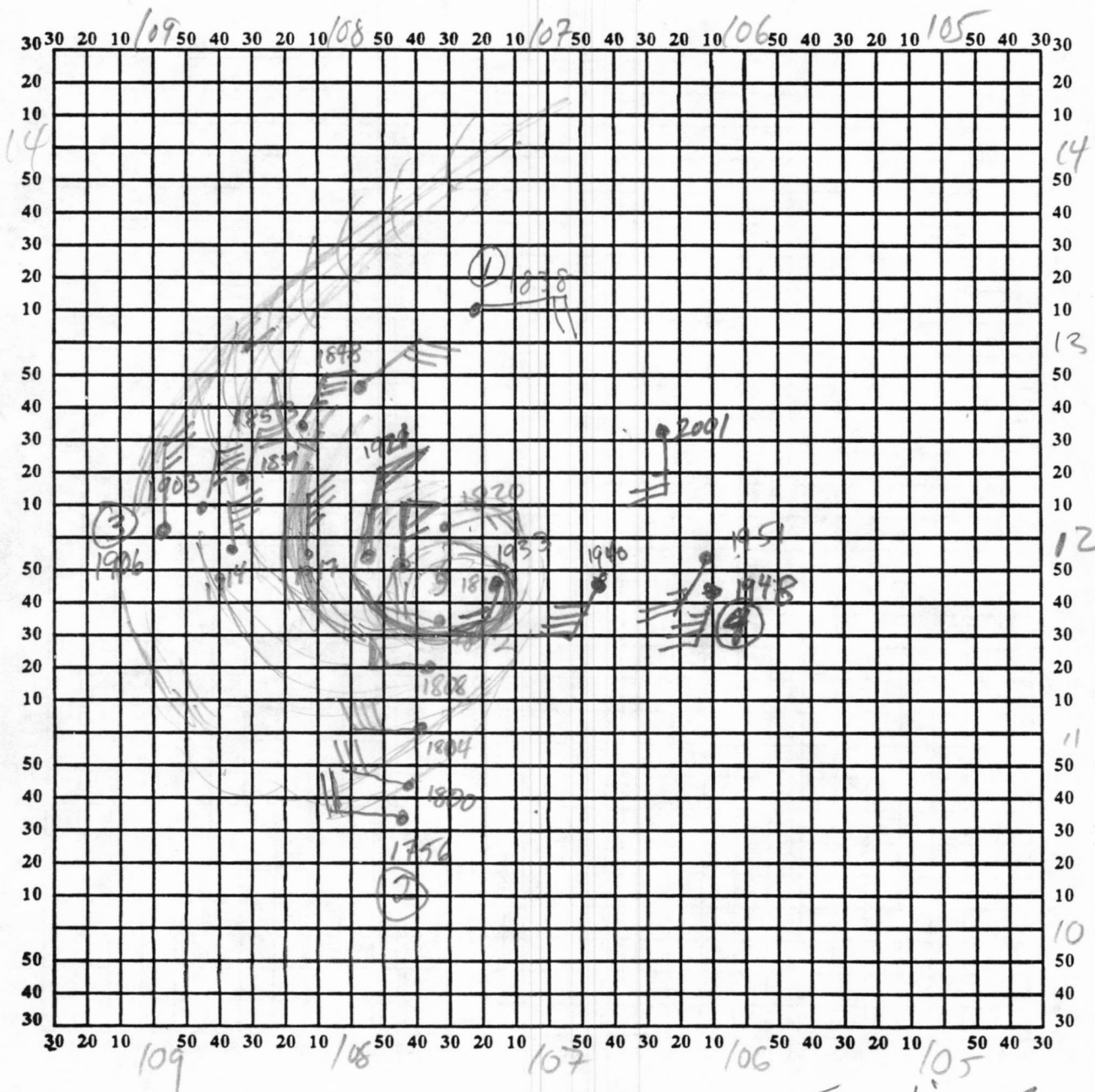
REMARKS:

- 2D-C problems before TO - not high priority - go without
- TA R/T had problems first hour. Neal Swapped R/T's worked real well once it warmed up. Tim Roles is still working on range delay problem (still present on this flight)
- Hasselblad worked intermittently
- C-Scat worked real well.



1st Fig 4
5000'

Date 9/21/92 Aircraft 920921 H1 Observer Marls



area. Formation of
small hook like SE
corner of — feature with a radius
5-10mm with
60 kts winds
around only
convection on S & SE side

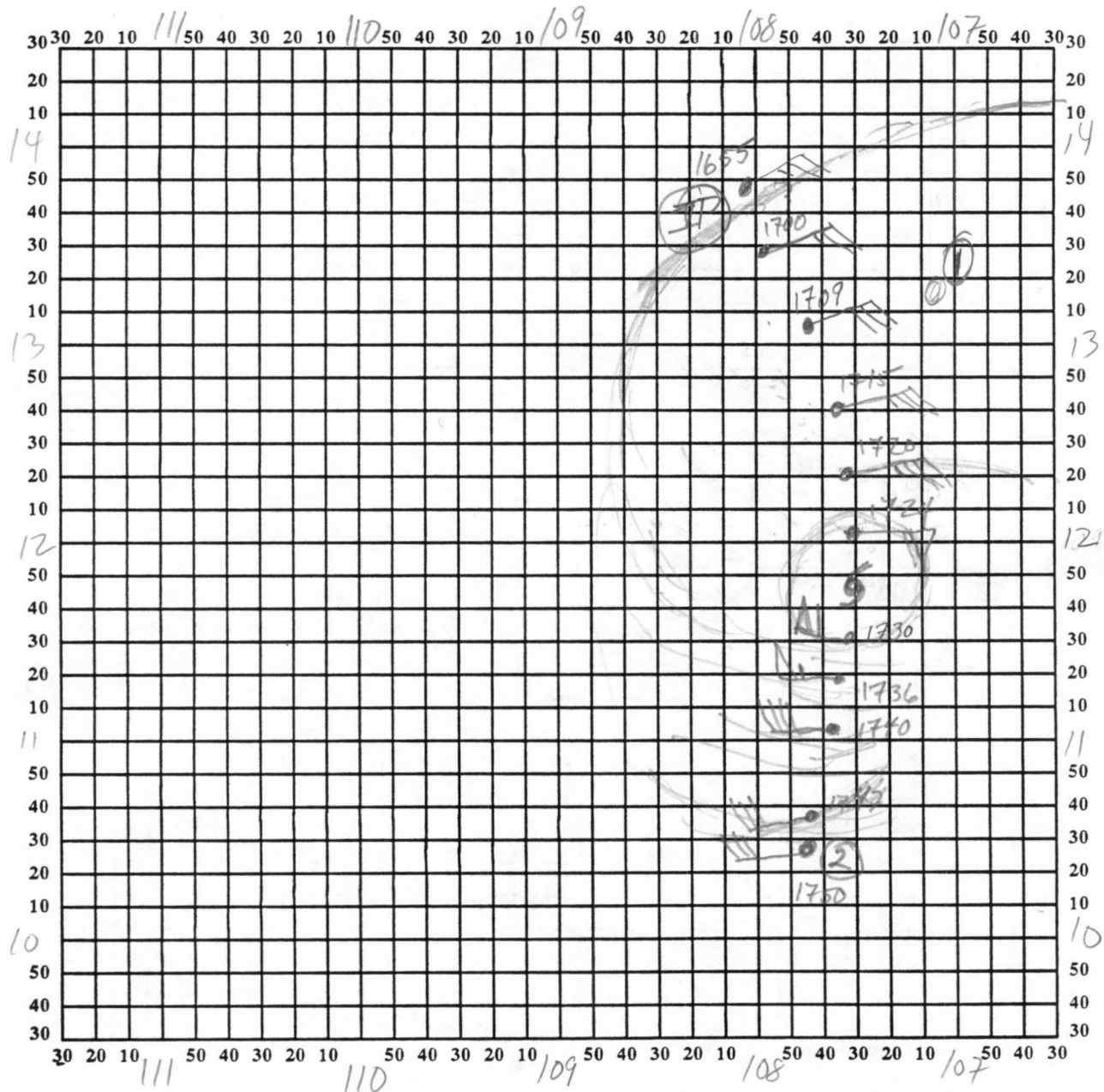
Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

①

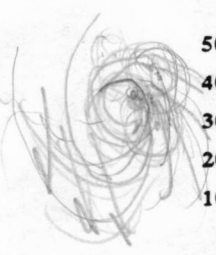
5000'

Date 9/21/92 Aircraft 42RF Observer Marks



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

True at 25° Latitude, in Degrees and Minutes



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

Hurricane Recco Plotting Chart

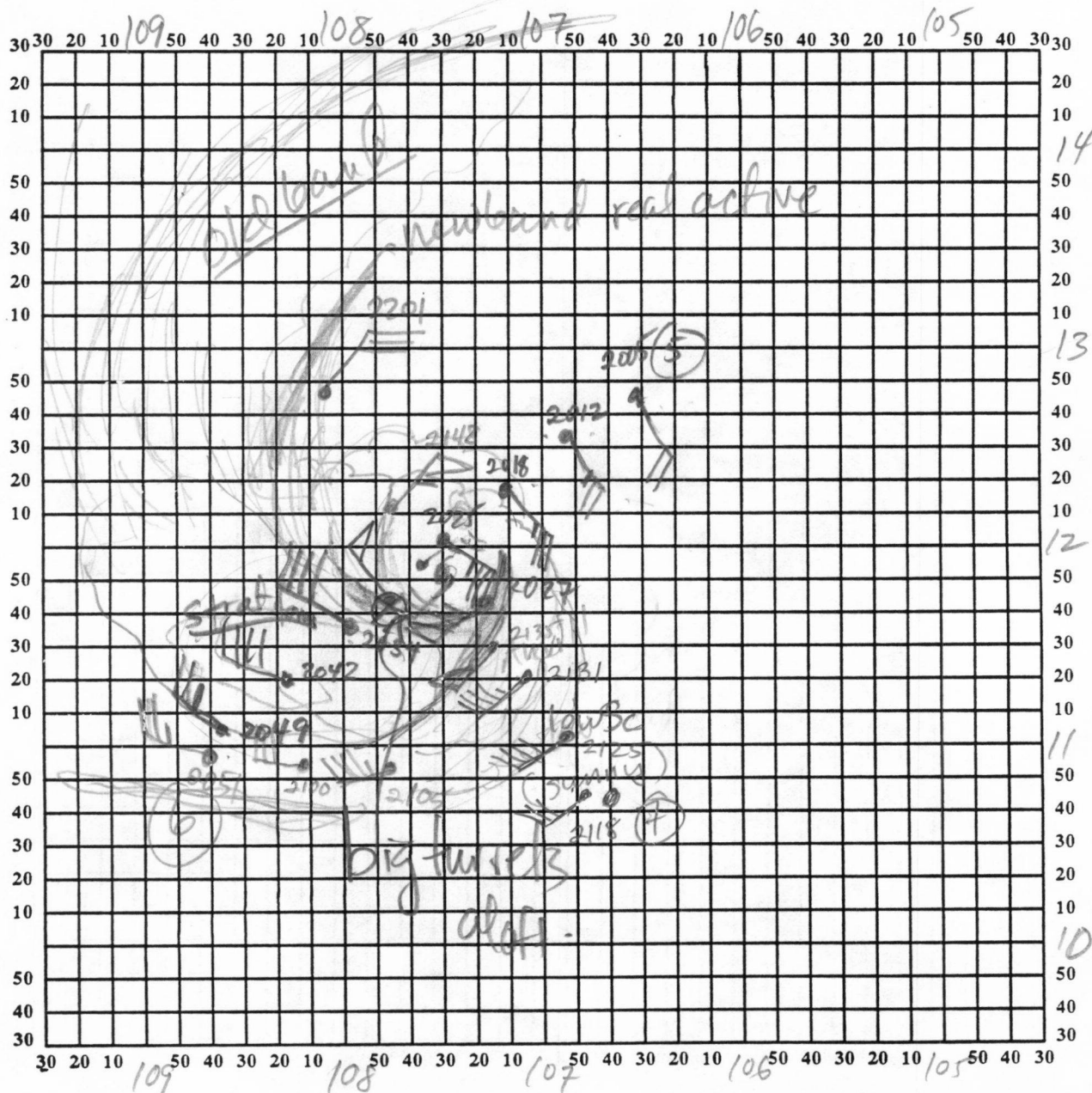
True at 25° Latitude, in Degrees and Minutes

Date 9/21/92

Aircraft 92092141

Observer Marks

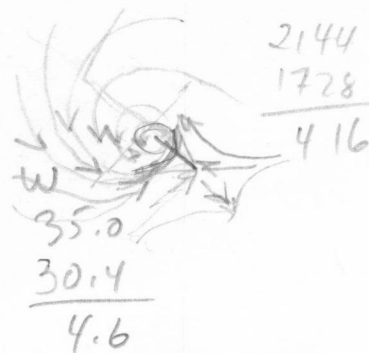
Change hurrl LFSTA
to have white
at 5000' and double
up blue (3)
at 0950_h Second Fig 4
5000'



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



4.25 h
N
64.2
53.2
9.0



C-band Altimeter off

Sat overpass

~1817 Z (Eq)

Hasselblad on

(1)

Lead Project Scientist Event Log

Date 9/21/92

Flight 920921 H1

LPS Marks

Time	Event	Position	Comments
151808	TO	GPS 20°41" 105°15"	Puerto Vallarta
1647	Start descent	14°15" 107°40"	just outside principal band
1658	(IP)	13°36" 108°02"	150km from G 5000'
			TK 165
172826	G	11°47.5" 107°30.4"	~990mb (3)
175026	(2)	10°29' 107°43.9"	reverse heading TK 010 to G
1816	G	11°49" 107°32"	missed it lumi towed
183858	(1)	13°12" 107°27"	turn TK 230°
190530	(3)	12°4" 108°55.5"	Turn TK 095
192800	G	11°53.2" 107°34"	989mb
			1932 red interesting
194800	(4)	11°43" 106°10"	Turn TK 320°
2005	(5)	12°47" 106°31"	TK 230°
2028	G	11°56" 107°38"	2033 TA turret aloft wow!!



Sensitivity
really good

TA 1715
Xmilla
replaced

freq.
drifting
Neal's
on it

TA Doppler
in S side
of G high
altitude

N	W
53.2	34
47.5	30.4
5.7	3.6

24
7.14
2.85
7.8
4.59
3.5 kb
325°

Date 9/21/92 Flight 970921 H1 LPS Markus

[illegible]

110

G Tina

109

SEP 21 1992 108

107

2e plotted
or TA

920921H1

14°

-14

13°

-13

12°

-12

11°

-11

10°

-10

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE
NATIONAL

1905 FIAT off

FIAT on for climb
out to capture rain band

FIAT 2205 on

cellular rain band

1839 FIAT on

2006 FIAT off

1903 FIAT off

2029
1928
1816
1728

1946 FIAT on

15.2
big rainy area

2053
FIAT
ON

2119
FIAT
off

110

109

108

107