

E.2 Lead Project Scientist

E.2.1 Preflight

- _____ 1. Participate in general mission briefing.
- _____ 2. Determine specific mission and flight requirements for assigned aircraft.
- _____ 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- _____ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Review filed program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- _____ 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- _____ 5. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. 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).
- _____ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- _____ 8. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.

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.
- _____ 5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

E.2.3 Post flight

- _____ 1. Debrief scientific crew.
- _____ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- _____ 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 MGOC as to where you can be contacted and arrange for any further coordination required.
- _____ 7. Prepare written mission summary using form E-2 p.3 (due to Field Program Director 1 week after the flight).

"TS" ODETTIE ET flight #2

On-Board Lead Project Scientist Check List

Date 031206I Aircraft 43 Flight ID 6 December 2003

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Dodge/Gione</u>	Flight Director	<u>B. Damiano</u>
Cloud Physics	<u>—</u>	Pilots	<u>M. Silah P. Kennedy</u>
Radar	<u>M. Eastin</u>	Navigator	<u>Devin</u>
Workstation	<u>N. Dorst</u>	Systems Engineer	<u>S. Wade</u>
Photographer/Observer	<u>I. Popstefanija</u>	Data Technician	<u>R. Tong</u>
Omegasonde	<u>Dorst/Eastin</u>	Electronics Technician	<u>T. Lynch</u>
AXBT/AXCP/Guest	<u>—</u>	Other	<u>J. Smith</u>

SFMR

D. Sans Souci

Take-Off: 152844 Location: MacDill
 Landing: 2318 Location: " Number of Eye Penetrations: —

B. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>9Z</u>	<u>16.5</u>	<u>72.2</u>		
<u>1228</u>	<u>16°34'</u>	<u>72°12'</u>	<u>995</u>	
<u>18Z fcast</u>	<u>18.2</u>	<u>72.3</u>		
<u>1419</u>	<u>16°34'</u>	<u>72°06'</u>	<u>995</u>	<u>60 KTS NE</u>
<u>~1950</u>	<u>17.3</u>	<u>71.8</u>	<u>Barry's ESTIMATE</u>	

6th

6th

AF

A-force

C. Mission Briefing: ET Flight #2. Sample storm S.
of Hispaniola. Drop BT's at yesterday's loc

Lead Project Scientist Event Log

Date 6 Dec 2003

Flight 031206I

LPS Dodge/Cione

Time	Event	Position	Comments
152844	T/O	Mac Dill	T/O after delay to fix engine
1535	radar up, tape started		
1658	I had lunch	23°32', 76°37'	Chicken Salad, Pickle, Chips
1707	LF JBZ ↓	TL took LF off to check for inturf with TOP SFMR	
170830	SND #1 (PT)	23°00' 76°00'	-6.7°, -44 5829 GOOD
174248	PT 2 SND, turn	21°00' 74°00'	-4.3, -43.4 234/7 5675 GOOD
1802	see ⤿ on LF, 350 KM SE		of us we at 19°42' 72°46' - OR 7 73°46'
Don't know if we will catch it on the return leg or not			
181007	SND PT 3, turn	19°13' 73°42'	296/13 KTS GOOD
1815	LF estimate of eye center ~	17.2, 71.9, -	close to NHC 15Z pos
1818	SND splashed with 3 m/s SFC wind		
1823	Turn	18°35' 74°33'	290/7 KTS
1822-1826	LF off		
184307	SND PT 4		
1852	SND BT		
1903	we at 16°14' 72°05'		are ~80nm due S of 1/2 ctr.
190737	right hand turn	15°57', 71°52'	our S most PT 6
191016	SND (PT 6)	16°00' 71°54'	251/23 KTS -4.° GOOD
1922 NT	had 16 m/s SFC gust drop		TL - agrees SFMR
192240	SND (PT 7)	16°46' 71°05'	218/41 KT
192414	SND	16°51' 71°00'	NO winds PTH good GOOD WINDS

AT 16°34' 72°06' 1419 AF 995 bab

Modifying pattern so new PTB will be at same lat as center

Barry's Unofficial Fix
17.3 55 KTS
71.8 (from
1950-1955

Lead Project Scientist Event Log

Date 12/06/2003 Flight 031206I LPS Dodge, Cione

Time	Event	Position	Comments
1930	transmitting band ~ 90 nm	E of CTR	
1936	SND (PT 8)	17°33' 70°26'	SONDS GO
193748	RB Snd	17°31' 70°32'	201 52 kt G
194735	SND	17°29' 71°18'	226/24
194820	BT /16	71°20'	Bouncy
1950	17°29' 71°30'	Passed Just S of CTR,	too close
195344	SND / BT 12	17°29' 71°47'	1 kt FLTK
195504	SND	17°29' 71°54'	(Good) BACKUP SND
200728	BT /16	17°30' 72°30'	one of yesterdays Pts.
200817	BT/SND	17°45' 72°51'	BT Good!! SND GOOD
201350	BT 16	18°01' 73°12'	326/17 KTS
203720	Snd (Pt 11)	18°29' 74°43'	Good Snd 272/12
204300	climbing to 2000'		
205702	SND (PT 11)	19°30' 75°50'	
SO we now we fly over CUBA and return home			GOOD, LAST sonde
2318	landed at Mac Dill		

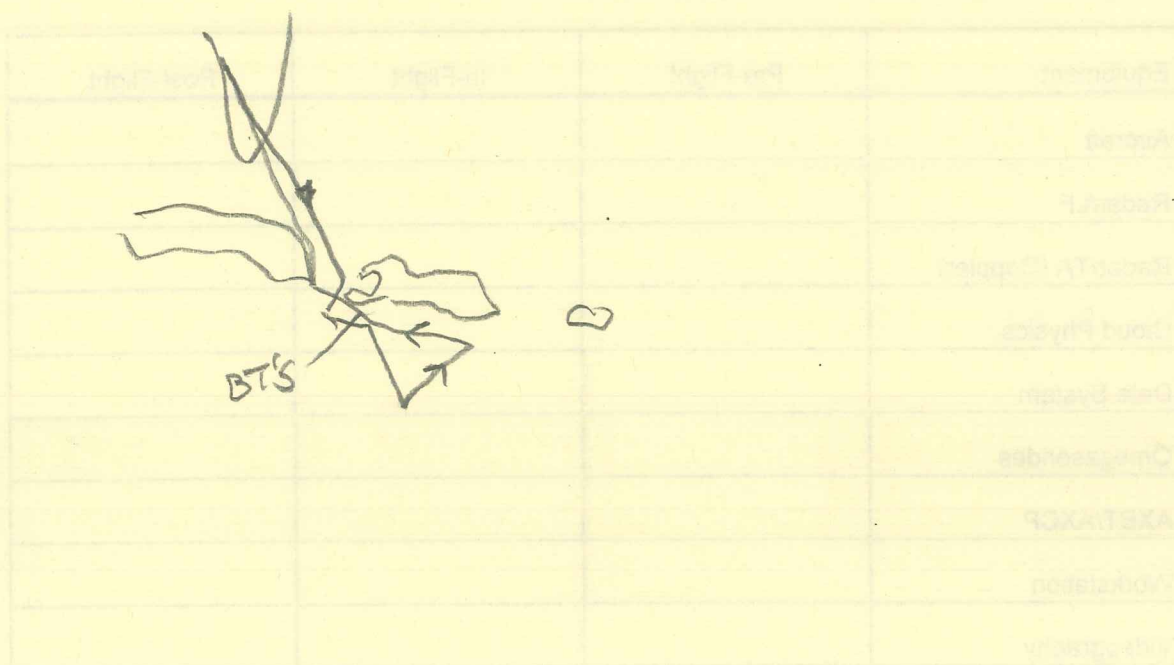
we inserted
some sondes, BT's
on 8, 9, 10 LEG

3AP RB. 00



the drop
No Wind
7 getting

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



E (II) Actual Flight Pattern

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist _____
Radar Scientist _____
Cloud Physics Scientist _____
Dropwindsonde Scientist _____
Boundary-Layer Scientist _____
Workstation Scientist _____
Observers _____

Mission Briefing: (include sketch of proposed flight track or page #)

Mission Synopsis: (include plot of actual flight track)

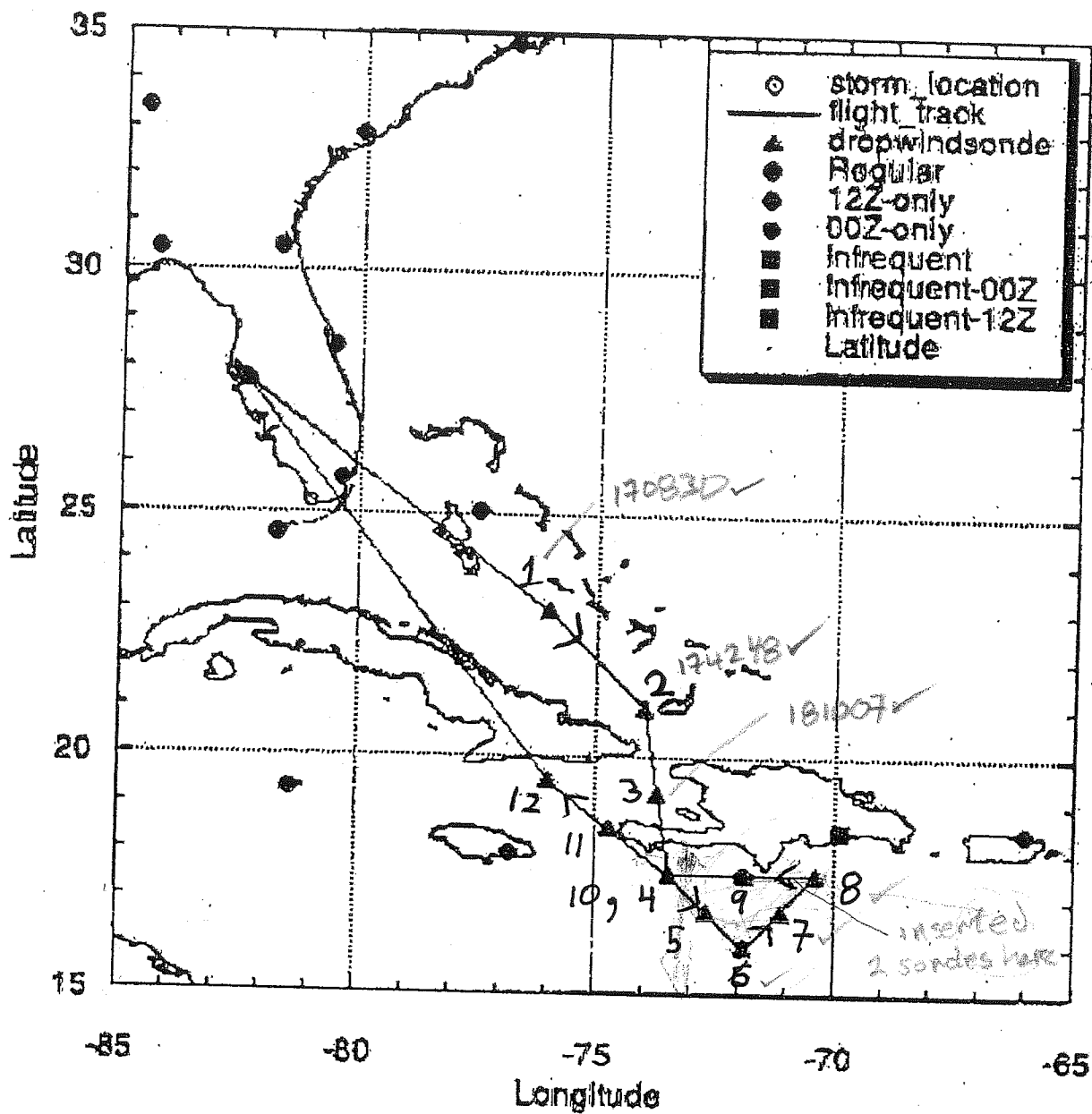
Evaluation: (did the experiment meet the proposed objectives?)

Problems: (list all problems)

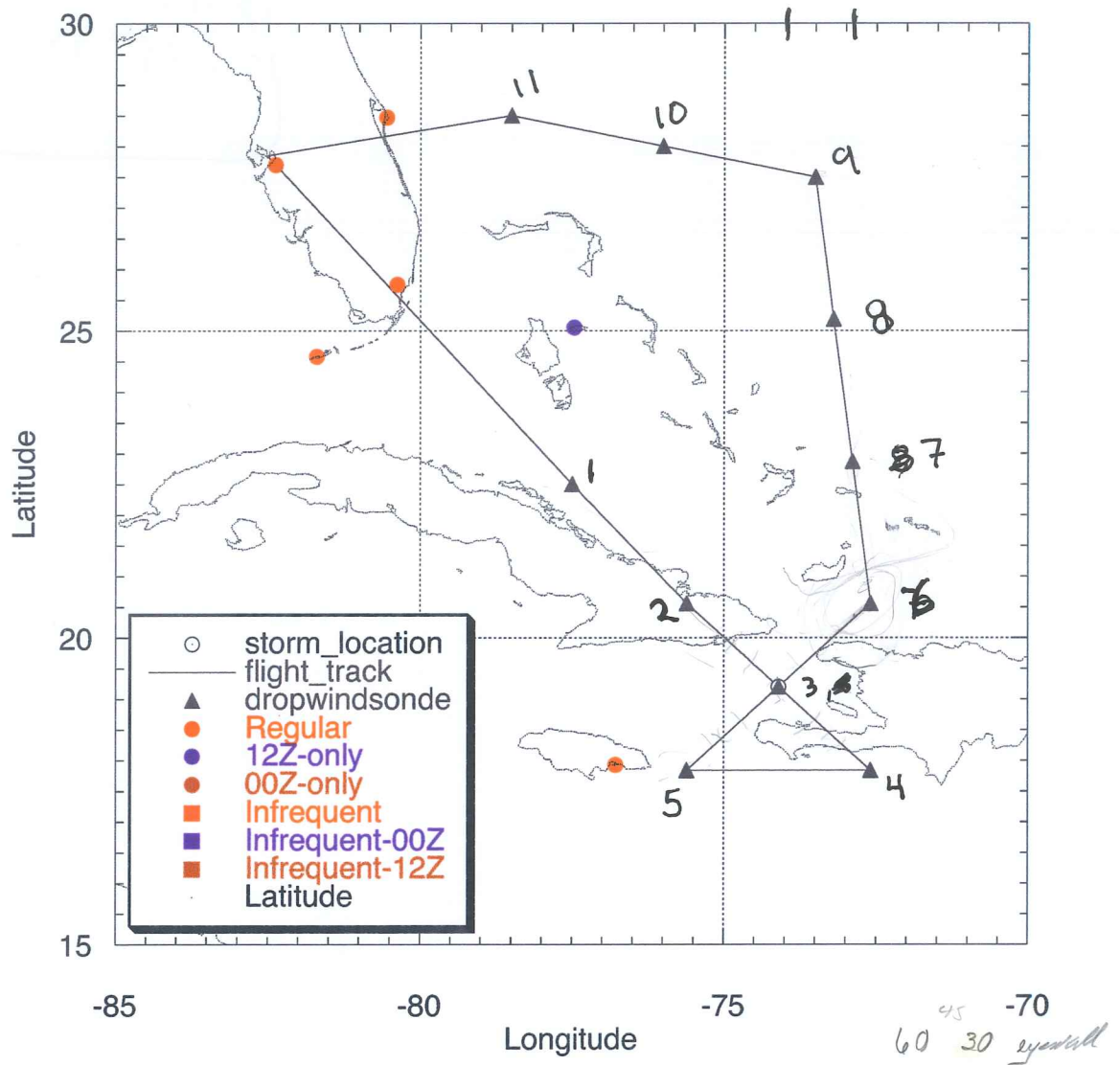
1. Wrstn software is NOT putting storm name in
Neal put wxwxa ^{and Odette in Storm Name} ~~ODETTE~~ in preflit - but each
tempdrop file only lists wxwxa - so must edit
EACH file before transmitting

2. But that is not a problem after all.
In preflit ND put Odette in Storm/Project
Name and wxwxa in other line. Turns out
Must enter wxwxa storm name.

03120612 ODETTE



03120511 ET



As high altitude as possible
BTs after figure 4

BT drop Points

18 73°12'

17 45' 72°50'

16 7°30' 72°30'

15 6°59' 72°45'

14 6°28' 72°58'

13 15°46' 73°18'

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: ODETTE/SYNOPTIC

NOAA/Hurricane Research Division Friday, December 5, 2003 10:05:20 pm
Aircraft: N43RF Proposed takeoff: 06/1500Z
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TRACK DISTANCES

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	23 00	76 00		472.	472.	1:58
2	21 00	74 00		167.	639.	2:39
3	17 29	73 26	90/269	214.	853.	3:33
4	16 00	71 54	90/180	126.	979.	4:04
5	17 30	70 22	90/90	127.	1106.	4:36
6	17 30	71 54	0/ 0	90.	1196.	4:59
7	17 29	73 26	90/269	90.	1286.	5:21
8	19 30	76 00		193.	1479.	6:09
9	MACDILL			625.	2105.	8:46

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: ODETTE/SYNOPTIC

NOAA/Hurricane Research Division Friday, December 5, 2003 10:05:20 pm
Aircraft: N43RF Proposed takeoff: 06/1500Z
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DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 00	76 00		1:58
2	21 00	74 00		2:39
3	19 14	73 43		3:06
4	17 28	73 26		3:33
5	16 44	72 40		3:48
6	16 00	71 54		4:04
7	16 45	71 07		4:20
8	17 30	70 21		4:36
9	17 30	71 54		4:59
10	17 28	73 26		5:21
11	18 29	74 43		5:45
12	19 30	76 00		6:09

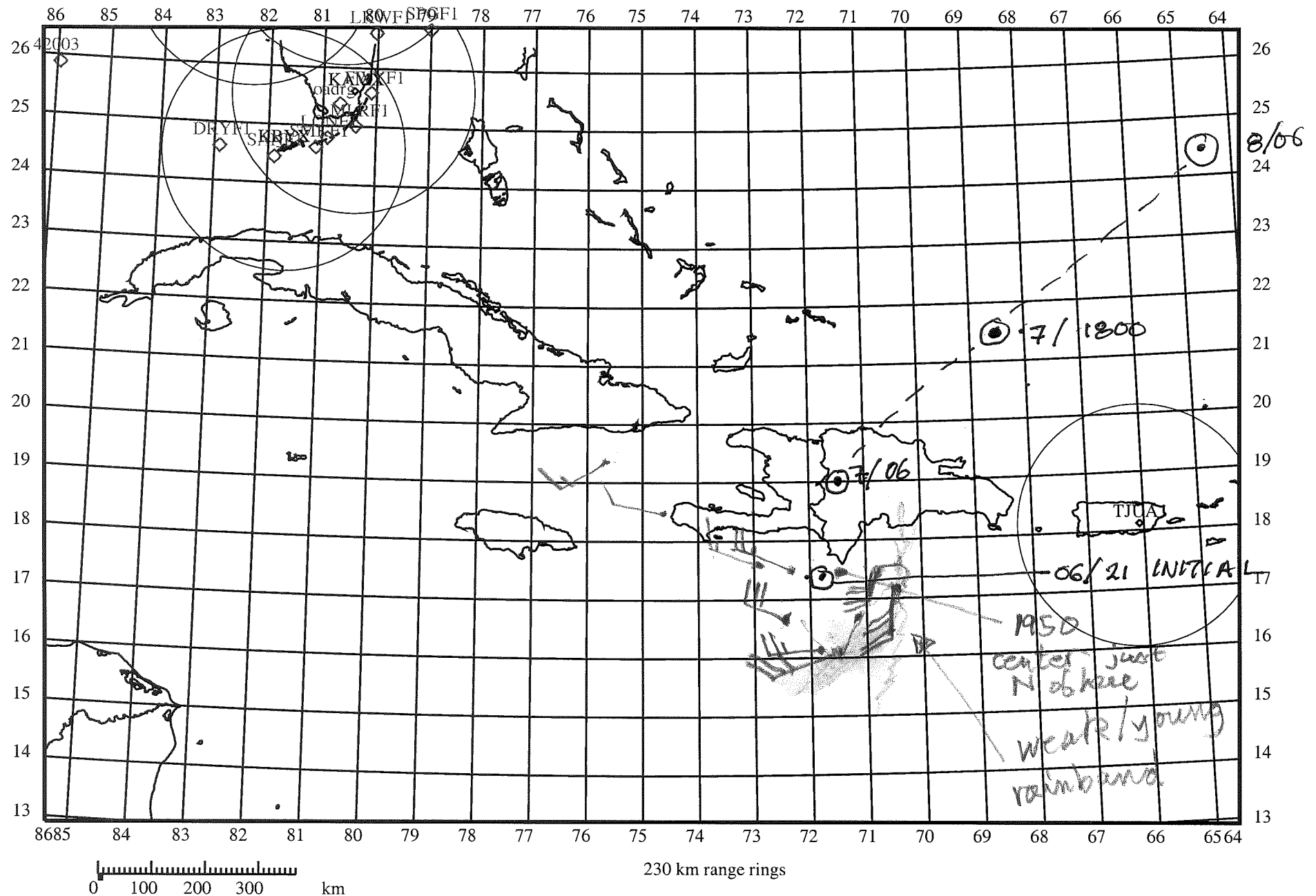
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031206I

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⊙ = Lixen's 6/21Z Advisory

Center Lat: 20.00 Lon: -75.00



TS Odette

⊗ 6/15 Z Discussion

Center Lat: 20.00 Lon: -75.00

