

On-board Lead Project Scientist Checklist

DATE 9/10/81 AIRCRAFT 42RF FLT 810910H1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>Willis</u>	Omegasonde	<u>—</u>
AXBT	<u>—</u>	Sys Eng	<u>—</u>
Hot Film	<u>—</u>	Data Tech	<u>CONNORS</u>
Radar	<u>MARKS/FEINBERG</u>	E1 Tech	<u>Berles</u>
Flt Dir/Met	<u>DAVIS</u>	Other	<u>Turner - Pilot</u>
Take Off <u>MIA</u>	Location <u>1104 Z</u>	Landing <u>1940 Z</u>	Location <u>MIA</u>

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>9/10</u>	<u>01Z</u>	<u>22.5 N</u>	<u>73.5 W</u>	<u>NA ~40 knts</u>
<u>9/10</u>	<u>06Z</u>	<u>23.5 W</u>	<u>74.0 W</u>	<u>~40 knts</u>
<u>9/10</u>	<u>12Z</u>	<u>24.2 N</u>	<u>75.2 W</u>	<u>?</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

C. Mission Briefing

Long-Term Monitoring - or fly 4
02Z 15Z 18Z fixes

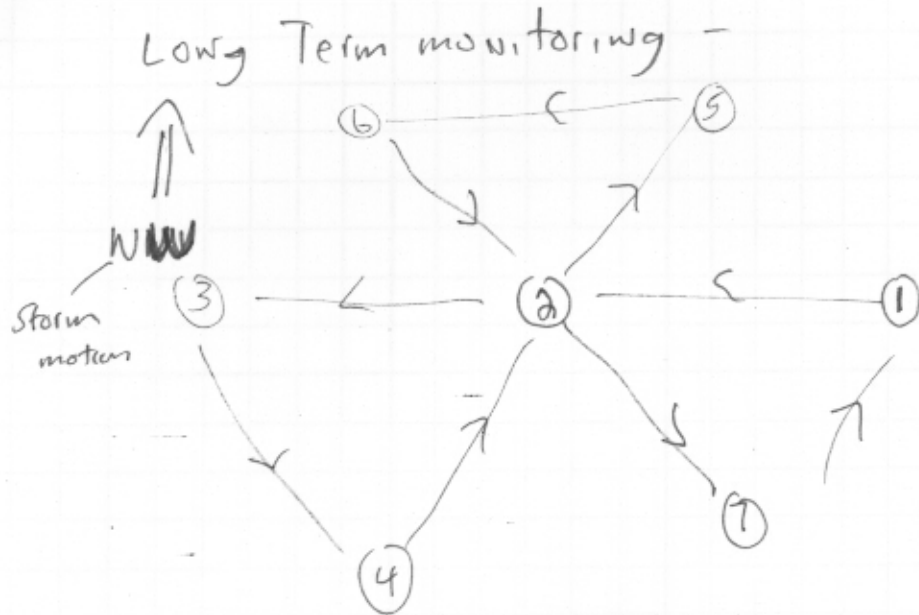
D. Equipment Status

<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	No formvar or doppler	_____
Data Sys	ok	ok	ok	_____
Omegasondes	-	_____	-	_____
AXBT	-	_____	-	_____
Gust Probe	-	_____	-	_____
Hot Film	-	_____	-	_____
Photography	ok	ok	ok	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

REMARKS Formvar will be tested.
Doppler radar will be tested
Bob Hartz and Ed Zipsen onboard as observers

HURRICANE TRACK PLOTTING CHART

E. Proposed and Actual Flight Patterns



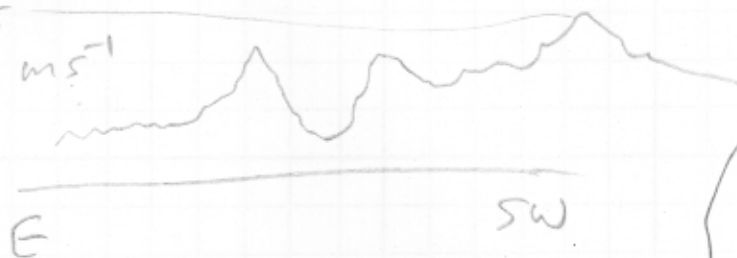
will enter at pt. 6

Because of late takeoff will go directly to forecast storm center at 5 kft P.A. and pick up pattern to pt 7 then.

Following winds to find center

25 $m s^{-1}$ winds to SE in convective band

15 $m s^{-1}$



Cutting legs down to 60 n.mi.

Nearly closed off eye



DATE 8/09/04

FLIGHT GERT

LPS Jorgensen

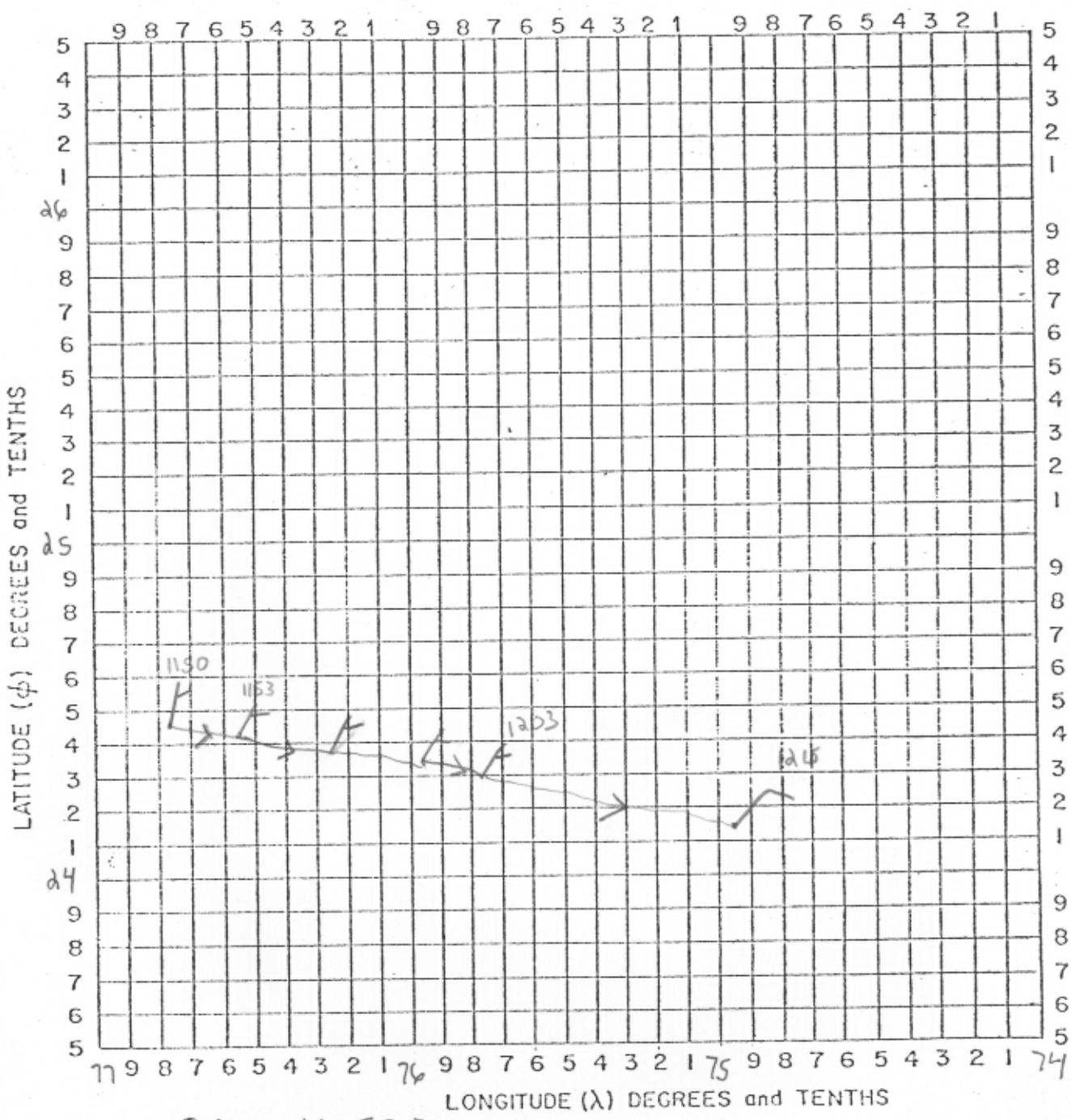
Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
Takeoff	1104 Z	MIA	Initial cruise altitude 16kft Late takeoff - no time for TAS cal.
Descent to 5kft	1147 Z	24.57 77.22	TRK 103° Wind calm
Wind shift	1230 Z	23.47 74.36	MAX WIND ~ 18ms ⁻¹ sfc wind looks ~ 25ms ⁻¹ 1000mb sfc
Head to pt 7	1235 Z	23.5 74.4	
Rt 7	1257	22.35 73.64	
pt 2	131345	23.42 72.95	
CNTR	1336 Z	23.51 74.47	1000mb sfc P
PT 3	1347 Z	23.5 75.9	TRK 158°
pt 4	1400 Z	22.87 75.03	
CNTR	1418 Z	23.87 74.41	
pt 5	1432 Z	24.7 74.3	
pt 6	1441	24.7 74.9	
CNTR	1456	24.03 74.53	999 mb SP
pt 7	1511 Z	23.18 74.05	
pt 1	1524	24.0 73.5	descending to 1000ft
pt 1	1529 Z	24.1 73.3	pt 1 1000ft
CNTR	1545 Z	24°09' 74°28'	999 mb SP
pt 3	1602	24.09 75.63	climb to 5kft
pt 4	1614	23.33 75.11	
CNTR	1635	24.44 74.72	Missed wind center badly 999 SP
pt 5	164550	25.22 73.82	

*Log times of all significant altitude changes, turns, and eye fixes

**!new altitude, heading, center position, etc.

HURRICANE RECCO PLOTTING CHART

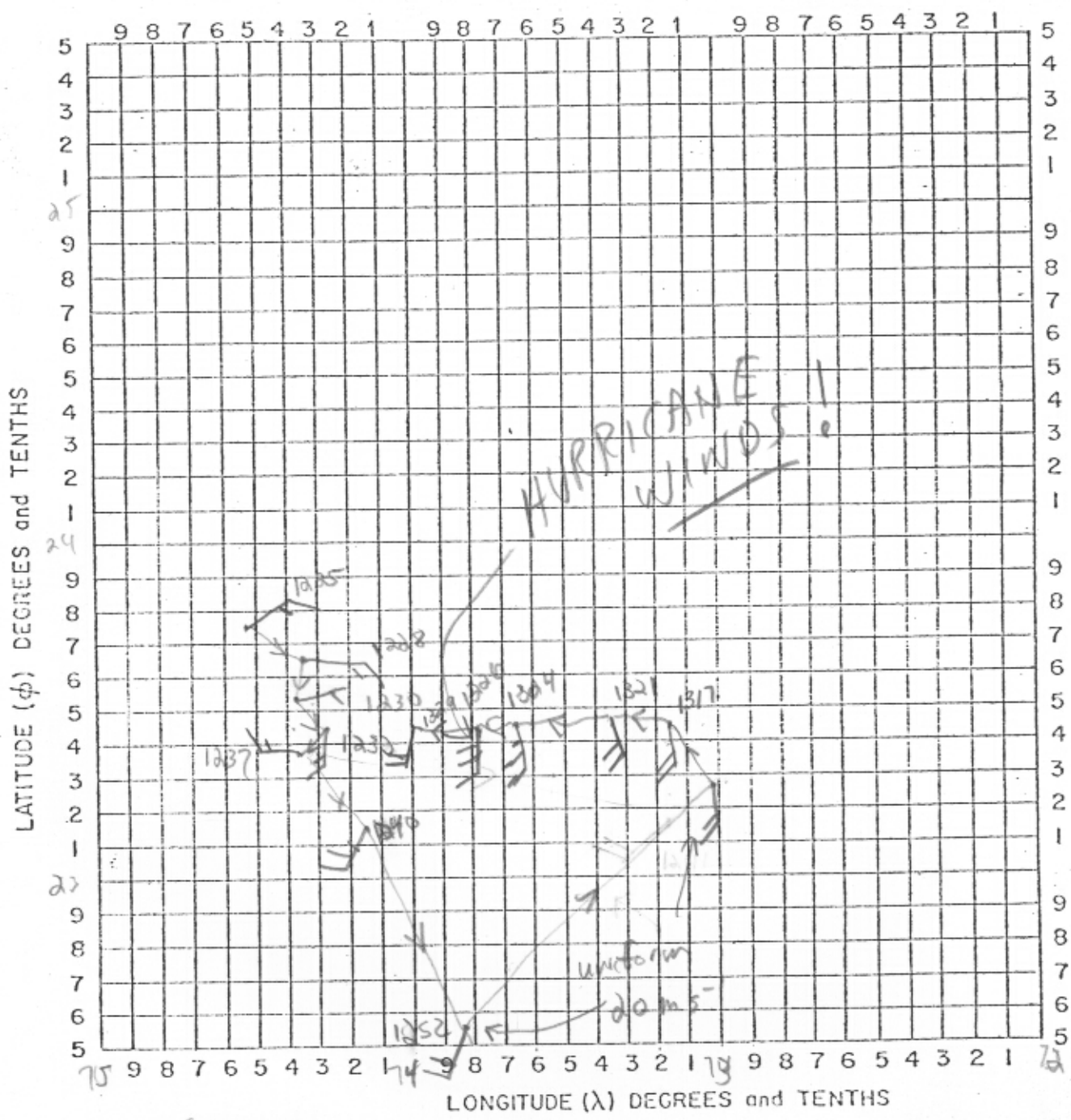


DATE 810910H1 GERT
 OBSERVER JORGENSEN

NOTE: Label full degrees according to location of flight area

①

HURRICANE RECCO PLOTTING CHART

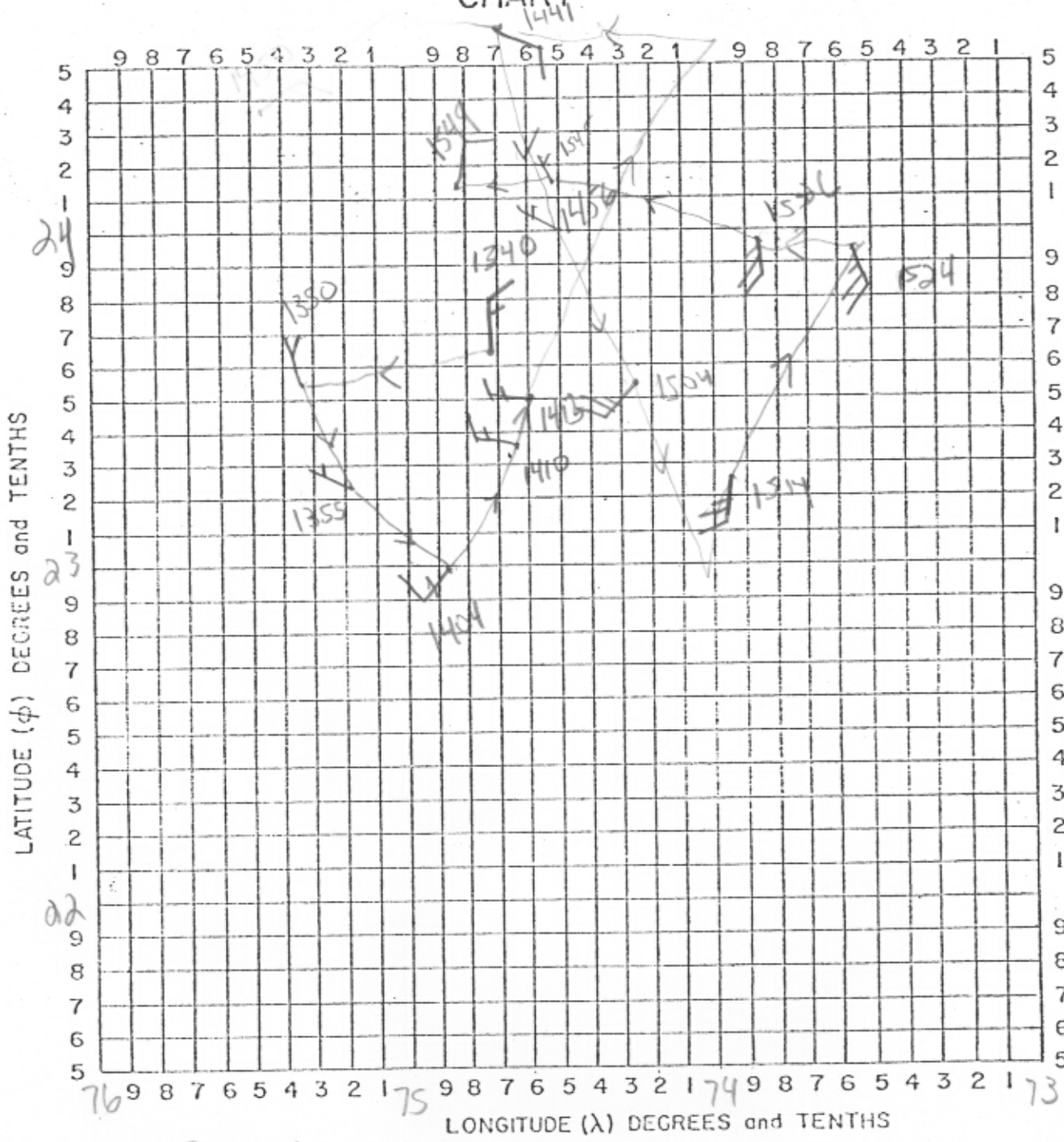


DATE 810910 HI
 OBSERVER JORGENSEN

NOTE: Label full degrees according to location of flight area

(3)

HURRICANE RECCO PLOTTING CHART

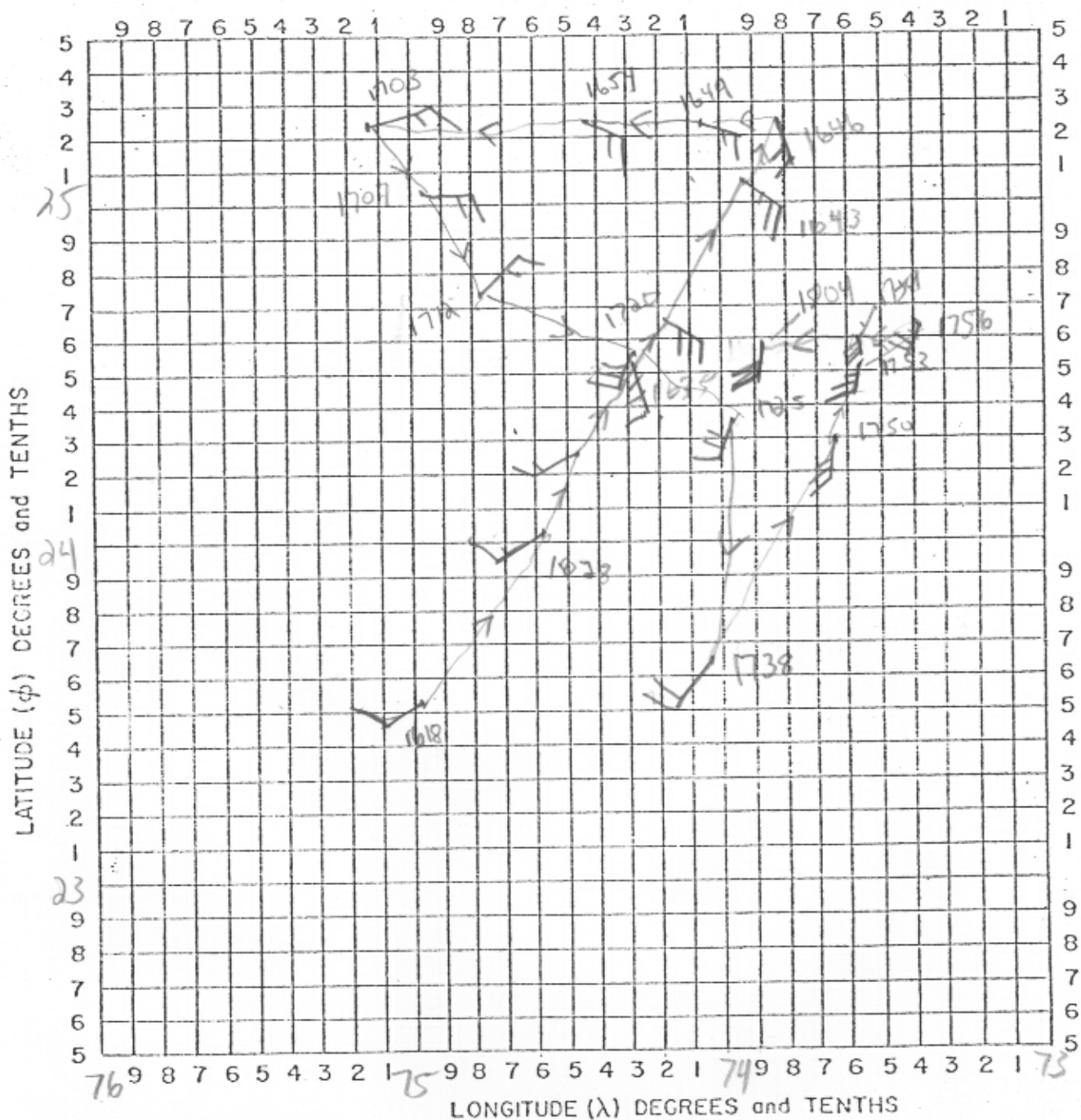


DATE 8/09/10 AM
 OBSERVER JORGENSEN

NOTE: Label full degrees according to location of flight area

3

HURRICANE RECCO PLOTTING CHART



DATE 810910H1
 OBSERVER JORGENSEN

NOTE: Label full degrees according to location of flight area

⑨

3ED

-15452 = 14.3 kt

0203
1158

+0199
1200

+18 0209
+15 1204

+18 0204
+15 1204

+17 0215
+16 1206
+15 1208
+13 1210

+19 0169
+16 1205
+13 1210

+18 0204
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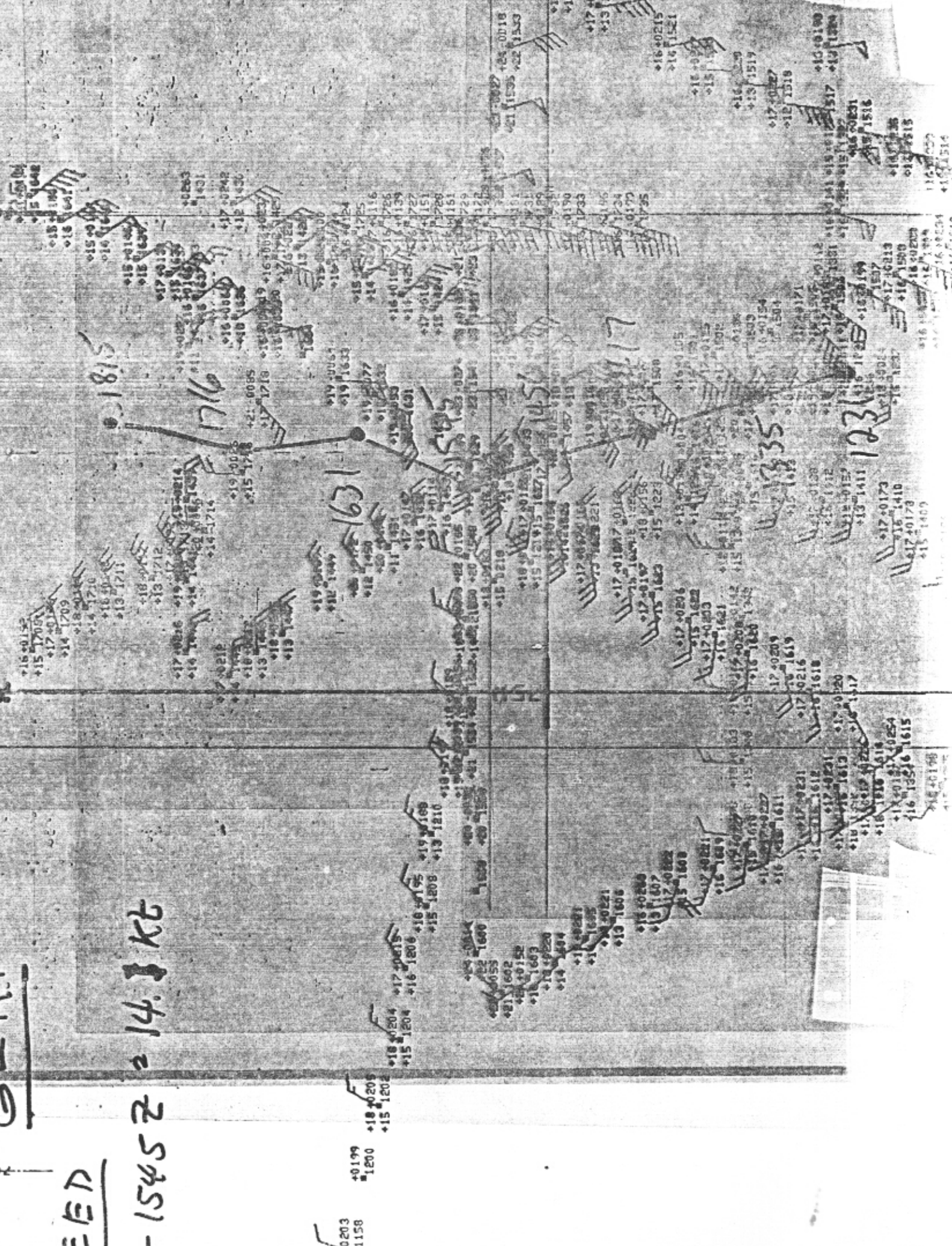
+18 0204
+15 1204

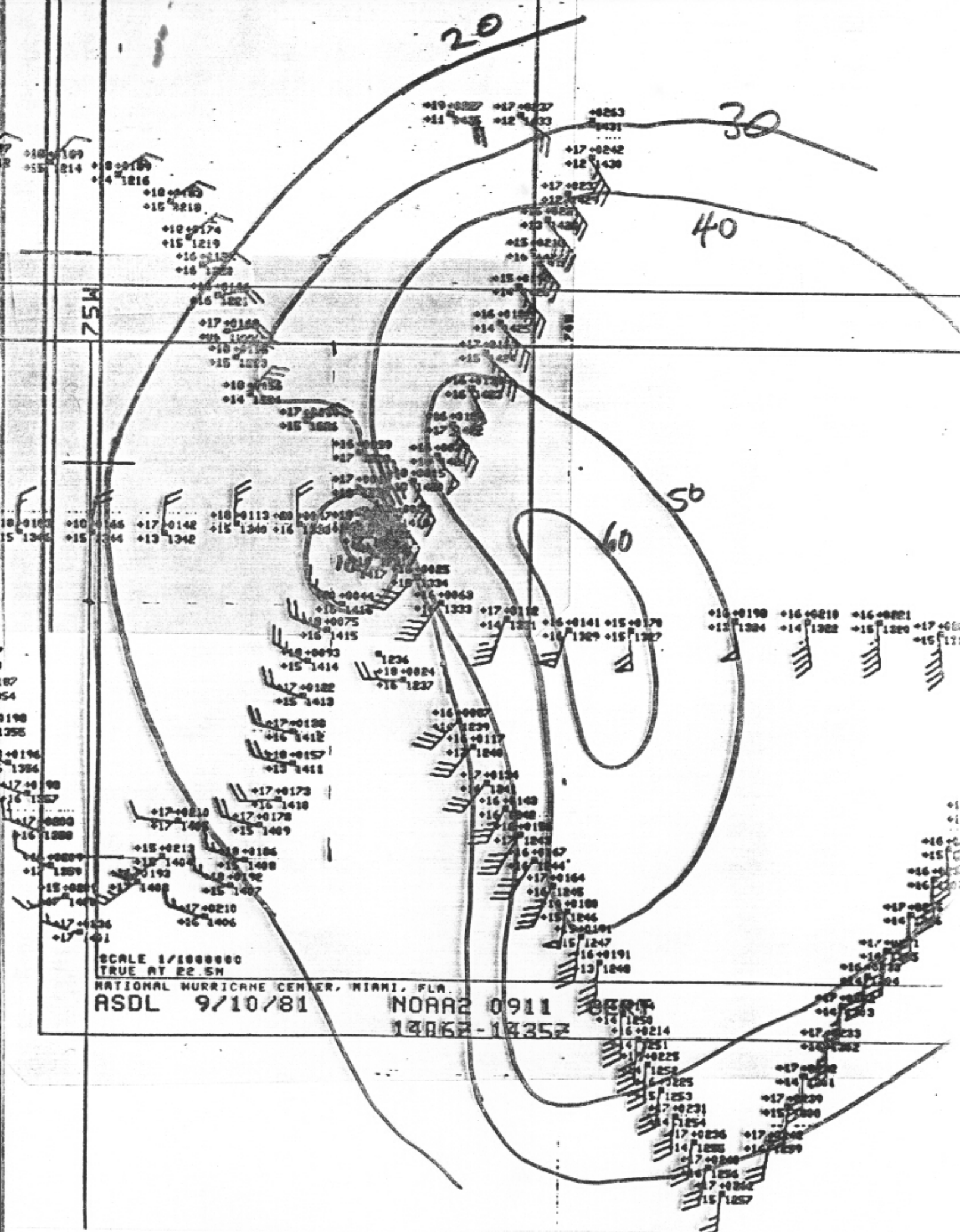
+18 0204
+15 1204

+18 0204
+15 1204

+18 0204
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+18 0204
+15 1204





20

30

40

50

60

75W

70W

SCALE 1/1000000
TRUE AT 22.5M

NATIONAL HURRICANE CENTER, MIAMI, FLA.

ASDL 9/10/81

NOA2 0911

14062-14352

+19-0027 +17-0027 +0263
+11-0435 +12-0433 +0431

+17-0242
+12-0430

+17-0223
+12-0421

+15-0221
+10-0420

+15-0210
+10-0410

+15-0150
+14-0400

+17-0110
+15-0350

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+16-0320

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+17-0300

+17-0010
+18-0280

+17-0010
+19-0250

+18-0113 +00-0019
+15-1340 +16-1304

+18-0044
+17-1334

+18-0075
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+17-0101

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+17-0230

GERT

810910H1

810911I1

10:55:00	23.15N	74.29W	13:05:00	29.21N	71.74W
12:30:05	23.48	74.36	15:15:12	29.66	71.32
14:17:50	23.86	74.45	18:06:36	30.42	70.71
14:56:09	24.02	74.53	20:15:35	30.70	70.35
15:44:30	24.17	74.51	23:05:00	31.29	69.79
18:17:50	24.87	74.45			
19:18:00	25.07	74.39			
20:45:00	25.44	74.34			

810910I1

810911H2

19:25:00	25.03	74.30	21:45:00	30.93	69.88
21:03:45	25.54	74.14	00:20:00	31.41	69.51
23:58:40	26.45	73.86	01:23:30	31.57	69.37
03:02:00	27.21	73.50	02:30:37	31.76	69.21
05:10:00	27.74	73.25	03:28:18	32.00	68.97
			04:11:07	32.16	68.94
			04:59:06	32.28	68.84
			07:50:00	32.81	68.43

810911H1

810912I1

04:25:00	27.06	73.45	05:45:00	32.44	68.56
06:13:10	27.50	73.15	09:00:10	32.92	67.82
09:08:29	28.25	72.64	09:54:30	33.05	67.62
12:03:28	28.94	72.17	11:42:10	33.32	67.20
14:15:00	27.06	73.45	15:22:00	33.86	66.36

CENTER FIXES

GERT 810910H1 -

123005	23.48N	74.36W
141750	23.86N	74.45W
145609	24.02N	74.53W
154430	24.17N	74.51W
181750	24.87N	74.45W
191800	25.07N	74.39W

GERT 810910I1 -

210345	25.54N	74.14W
235840	26.45N	73.86W
030200	27.21N	73.50W

GERT 810911H1 -

061310	27.50N	73.15W
090829	28.25N	72.64W
120328	28.94N	72.17W

CENTER FIXES

GERT 810911I1 —

151512	29.66N	71.32W
180636	30.42N	70.71W
201535	30.70N	70.35W

GERT 810912H1 —

002000	31.41N	69.51W
012330	31.57N	69.37W
023037	31.76N	69.21W
032818	32.00N	68.97W
041107	32.16N	68.94W
045906	32.28N	68.84W

GERT 810912I1 —

090040	32.92N	67.82W
095430	33.05N	67.62W
114210	33.32N	67.20W

GERT

SEPT. 1981

DATE / TIME	N		W		
	DEC LAT	MIN	DEC LONG.	MIN	
07/1500	15	43	57	48	A/F
07/1715	15	27	58	42	"
08/1005	15	25	62	13	"
08/1105	16	38	63	43	"
08/1350	16	59	64	34	"
08/1620	17	19	65	04	"
08/1711	17	29	65	09	"
10/0226	22	25	72	49	"
10/0640	22	49	73	14	"
10/0908	22	58	74	29	A/F
10/1230	23	28	74	20	NODATA 2
10/1418	23	52	74	15	"
10/1456	24	01	74	30	"
10/1545	24	08	74	31	"
10/1819	24	52	74	28	"
10/1918	25	04	74	22	NODATA 2
10/2103	25	34	74	10	NODATA 3
10/2359	26	18	73	56	"
11/0303	26	56	73	33	NODATA 3
11/0610	27	26	73	09	NODATA 2
11/0909	28	10	72	35	"
11/1202	28	50	72	07	"
11/1515	29	41	71	20	NODATA 2
11/1806	30	25	70	44	NODATA 2 & 3
11/2015	30	41	70	21	NODATA 2
12/0020	31	25	69	29	"
12/0122	31	34	69	18	"

	N	W	
DATE / TIME	DEC MIN LAT	DEC MIN LONG	
12/0231	31 49	69 05	NOAA 2
12/0323	32 03	68 49	"
12/0411	32 14	68 44	"
12/0500	32 25	68 35	NOAA 2
12/0900	32 55	67 50	NOAA 3
12/0954	33 07	67 40	"
12/1142	33 20	67 14	NOAA
12/1437	33 26	66 36	A/F
12/1821	34 10	65 18	A/F