

Flt ID: 020921H	From: KMCF	To: KMCF
Flt No: 02-81	Blk In: 0149	ATA: 0139
ETD: 1700Z	Blk Out: 1645	ATD: 1658
ETE: 9+00	Blk Time: 9.1	Flt Time: 8.7
Sponsor Org: NOAA / NESDIS	Program: OCEAN WINDS	Purpose: HURRICANE ISIDORE

AOC Personnel

AC: TAGGART, B ✓	Sys Eng: DELGADO, J ✓
CP: TEBEEST, R / STRONG, T ✓	Data Sys: MS MILLAN, S ✓
Nav: NEWMAN, C ✓	Radar:
FE: BAST, G / WADE, S ✓	GPS/BT: PEEK, B ✓
FD: SHEPHERD, T ✓	Cld Phys:
Avionics: ROGERS, M ✓	AA: MS FADDEN, J ✓

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P ✓	PI	NOAA / NESDIS
CONNOR, L	SFMR	1
ESTEBAO, D ✓	SFMR	UMASS
DONOVAN, B ✓	SFMR	1
BROCK, SUSIE ✓	OBS	NESDIS
BLACK, M ✓	HAPS/RADAR	HRD
POA. TATE, ROSEANNE ✓	OBS	NMOC
GIRIMONTE, AL LE. ✓	OBS	NRL

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #) IP 2326 8755

TEAL22 10K PA TEAL 74 FL380

1730-2330

NOAA2 WXWXA Isidore

2239
8546

PEN 1-1853

2-2022

2154

1957

PEN 9/0006

3-2137 Juan Carlos
Prados Becerra

8630

2159

8608

4-2251

5-2313

6-2330

7-2336

8-2349

2499
1658
841

2224

Fit ID: 020921H Time Off: 1658 Time On: 0139

Fit ID	Wt (Take Off)	Wt (Station / Take Off)	Wt (Land)	Wt (Station / Land)
	1010.7	29.87	1010.2	29.85

	Number	Data Disposition / Date / Quality
Fit Lvl Tapes	2	TRS
Radar Tapes	3	HRD Mike Rlar R
Cloud Physics Tapes		
Video Tapes	4	HRD Mike Black
AXBT	28	All good
AXCP		
AXCTD		
Dropsondes	53	43 HRD / 10 NESDIS (1 NO LAUNCH)

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks



NOAA P-3 N42RF

Ocean Winds 2002

H. Isidore



Flight ID: H020921

Sensor or system

Number or Name

INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	Radar Altitude (RA-159)
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2023.CON

Take off: 1658Z

Land: 0139Z

Notes:

The Radar Altimeter (RA-159) was replaced by the RA-232 during take off and landing due to spiking (165501 - 171400 Take off and 012900 - 013900 Landing).

All other instruments worked optimally during the flight; however, there were multiple times when the dewpoint temperature exceeded ambient temperature resulting in an RH > 100%. These times were during heavy rain events (as noted by the Johnson-Williams Liquid Water sensor) and were likely due to a wet-bulb effect on the total temperature sensor and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. No corrections were made during these events.

The aircraft INE positions were re-navigated with respect to GPS.

SPECIAL NOTE!!!

Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	1010.7 mb	1010.2 mb
Corrected Tower Pressure	1011.5 mb	1010.8 mb

Flight Director:

Tom Shepherd

Phone #:

(813) 828-3310 ext. 3053

10-12'S
9-16'S

Flight ID: 020921H

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U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
182541	2325	8757	140	133	56	36.2	16.6	11.7	2098	2112	1000.0	785.3	70.2	D1 B1 (12)
182959	2312	8740												D2 B2 (12)
183510	2256	8726												D3 B3 (12)
184032	2240	8712												D4 B4 (16)
184240	2236	8708	141	132	40	44.5	15.6	12.9	2129	2103	995.4	782.1	61.1	
184540	2225	8658												D5 B5 (16)
184842	2215	8649												D6 B6 (16)
185315	2200	8637												D7 B7 (16)
185835	2139	8617												D8 B8 (16)
190305	2123	8603												D9 B9 (16)
190700	2110	8553	146	161	250	55.6	14.7	15.3	2161	2121	994.6	779.5	71.2	D10 B10 (12)
191205	2054	8539												D11 B11 (12)
191710	2038	8526												D12 B12 (12)
192345	2020	8508												D13 B13 (12)
194240	2134	8416	034	040	190	44.1	14.6	14.1	2113	2122	1000.7	783.6	59.2	
195941	2203	8437	281	268	180	55.6	15.9	15.2	2127	2110	996.5	782.6	66.5	D14
200557	2204	8503												D15 B14 (12) 8
201045	2203	8522												D16 B15 (16)
201557	2202	8543												D17 B16 (16)
202013	2202	8600												D18
202239	2202	8610												CNTR D19 B17 (16)
202823	2201	8633												D20 B18 (12)
203024	2201	8642												D21
203320	2200	8654												D22 B19 (12)
210427	2203	8830	91	83	357	31.9	15.8	13.9	2136	2137	998.4	781.5	71.8	D23 B20 (16)
211015	2205	8808												D24 B21 (16)
211530	2205	8745												D25 B22 (16)
212026	2205	8722												D26 B23 (16)
212132	2205	8717												D27
212717	2205	8652												D28
213704	2205	8613												CARLOS
214758	2205	8602												D29-34
215311	2228	8548												D35 B24 (16)
215555	2239	8542												D36 B25 (16)
220034	2256	8532												D37 B26

2157 8607 947 1852 2158 8607 946 2203 8618

N42RF AVAPS DropSonde Log

N42RF Project: HURRICANE 02

Flight ID: 020921H

Mission: ISIDORE

Flight #: _____

System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒
1	020 215 453	1	1825	—		BGP		✓
2	020 215 450	2	1830	—	30	BGP		✓
3	020 215 055	3	1835			BGP		✓
4	020 215 448	4	1840		30	BGP		✓
5	020 215 009	1	1845			BGP		✓
6	020 215 445	2	1848			BGP		✓
7	020 215 010	3	1858			BGP		✓
8	020 215 447	4	1858		14	BGP		✓
9	020 215 311	1	1903		40	BGP		✓
10	020 215 253	2	1907			BGP		✓
11	020 215 029	3	1912	—		BGP		✓
12	003 825 011	4	1917		25	BGP		✓
13	020 215 252	1	1923			BGP		✓
	022 625 195	2	2000			BGP		✓
	003 825 277	3	2006		35	BGP		✓
16	003 825 189	4	2011			BGP		✓
17	003 825 193	1	2016			BGP		✓
18	003 825 186	2	2020			BGP		✓
19	003 825 278	3	2023			BGP		✓
20	003 825 181	4	2028			BGP		✓
21	003 825 010	1	2030			BGP		✓
22	003 825 184	2	2033			BGP		✓
23	003 825 191	3	2104			BGP		✓
24	004 255 057	4	2110		35	BGP		✓
25	003 825 009	1	2115			BGP		✓
26	993 215 048	2	2120			BGP	NLP CC	✓
27	022 908 055	3	2121			BGP	CC	✓
28	993 215 278	4	2127			BGP	CC	✓
29	020 215 343	1	2147			BGP		✓
30	003 825 182	2	2147			BGP		✓
31	003 515 147	3	2147			BGP		✓
	003 515 157	4	2147			BGP		✓
33	003 825 276	5	2147			BGP		✓

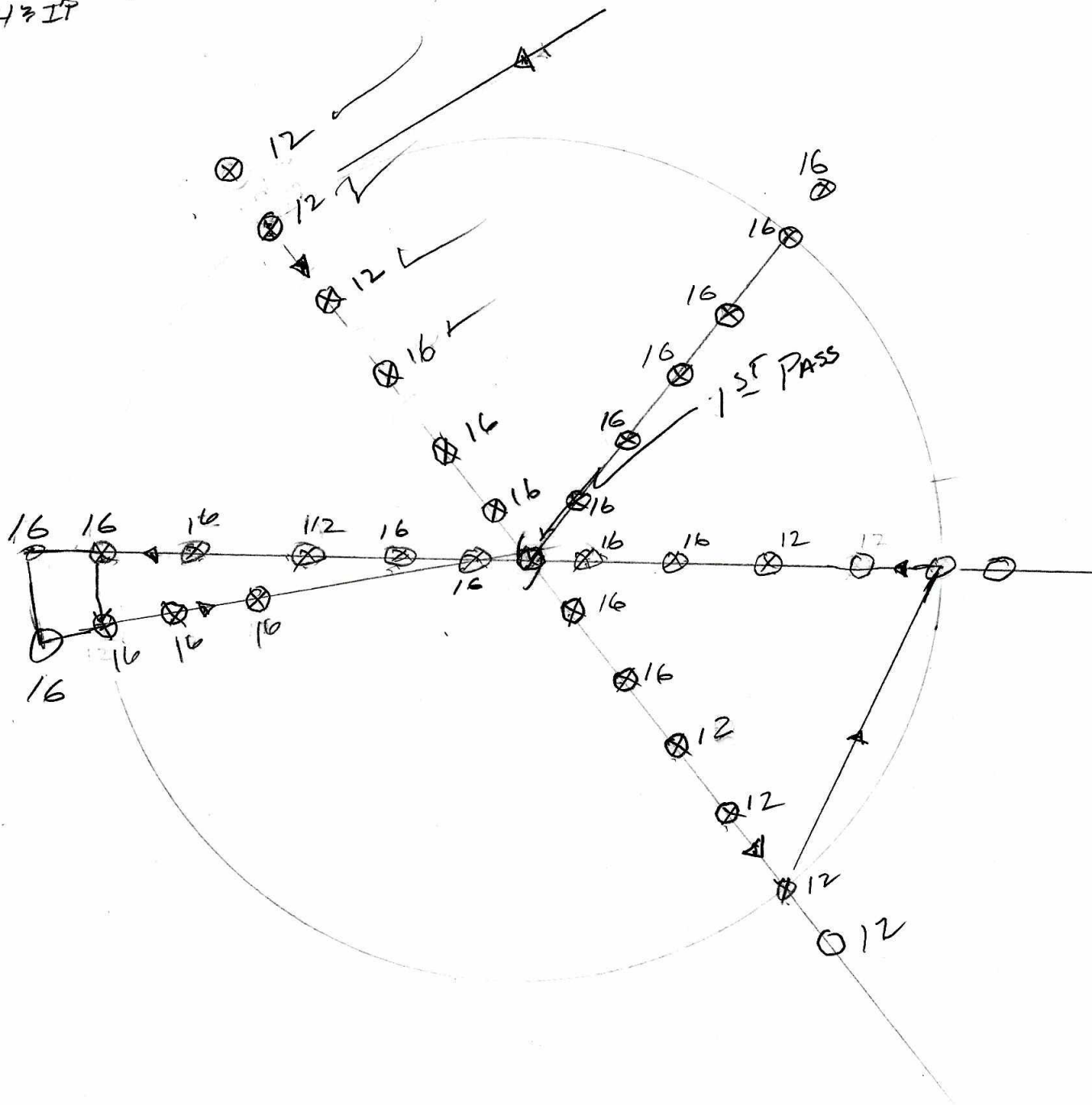
Drop #	Sonde Serial Number	Chn #	Time (ZULU)	Press. offset	Winds time	Operator Initials	Comments/ Drop Status /Reason for Failure	GOOD ☒
34	004 255 056	6	2147			PLP		☒
35	026 215 313	1	2154			PLP		☒
36	020 215 057	2	2156			PLP		☒
37	003 825 008	3	2200			PLP		☒
38	016 715 205	4	2205			PLP		☒
39	004 255 190	1	2211			PLP		☒
40	004 255 182	2	2215			PLP		☒
41	010 715 191	3	2300			PLP		☒
42	004 255 174	4	2300			PLP		☒
43	010 715 106	1	2300			PLP		☒
44	010 715 107	2	2300			PLP		☒
45	010 715 110	3	2314			PLP		☒
46	004 255 186	4	2320			PLP		☒
47	004 255 183	1	2344			PLP	NCD	☒
48	010 715 102	2	2344			PLP		☒
49	004 255 184	3	2345			PLP	NCD	☒
50	993 925 314	4	2358			PLP	LC	☒
51	022 945 004	5	0000			PLP	LC	☒
52	004 255 189	1	2358			PLP		☒
53	004 255 178	2	0007			PLP		☒
54		2						☒
55								☒
56								☒
57								☒
58								☒
59								☒
60								☒

06/21/00

AVAPS HINTS

- N43's **RED PHONE** appears to interfere with AVAPS telemetry, don't allow its use while sondes are in the air
- ASDL transmits on 401.8MHz, and will trash AVAPS telemetry +/- 1 MHz from that point
- Rawinsondes transmit at 403.0. Caribbean taxi drivers and bandit radio stations transmit wherever they want.
- The sonde GPS Oscillator needs at least 2 minutes to warm-up and stabilize. If you drop early, the winds data (if any) will be initially not accurate and probably late.
- Below 10,000', open the P3 launch chute cover holes at least 2/3 of the way. From 10,000' to 18,000', open about 1/2 way, above 18,000' open 1/3 of the way.
- Dropping a backup sonde prior to selecting **BEGIN COLLECTING DATA** is the single most frequent operator error.
- 60 seconds is the cut-off time for Good vs. Late winds. If no satellites are locked on by 60 seconds, or no winds data by 80 seconds, drop the backup.
- Frequency block assignments: **Air Force - Block A** **N42RF - Block B** **N43RF - Block C** **N49RF - Block D**
- P3 Drops only.... Shorten the ribbon to about 20" - 25"
- When sonde telemetry fails prematurely, wait until the normal drop time has elapsed to terminate data collection.
- If Pre-launch sonde telemetry is dependent upon hand position while holding the sonde in order to **NOT** generate CRC errors, the sonde transmitter is bad and it should not be dropped.

8741
2312
21.8 86.5 2159
2252 8630
8738 4317

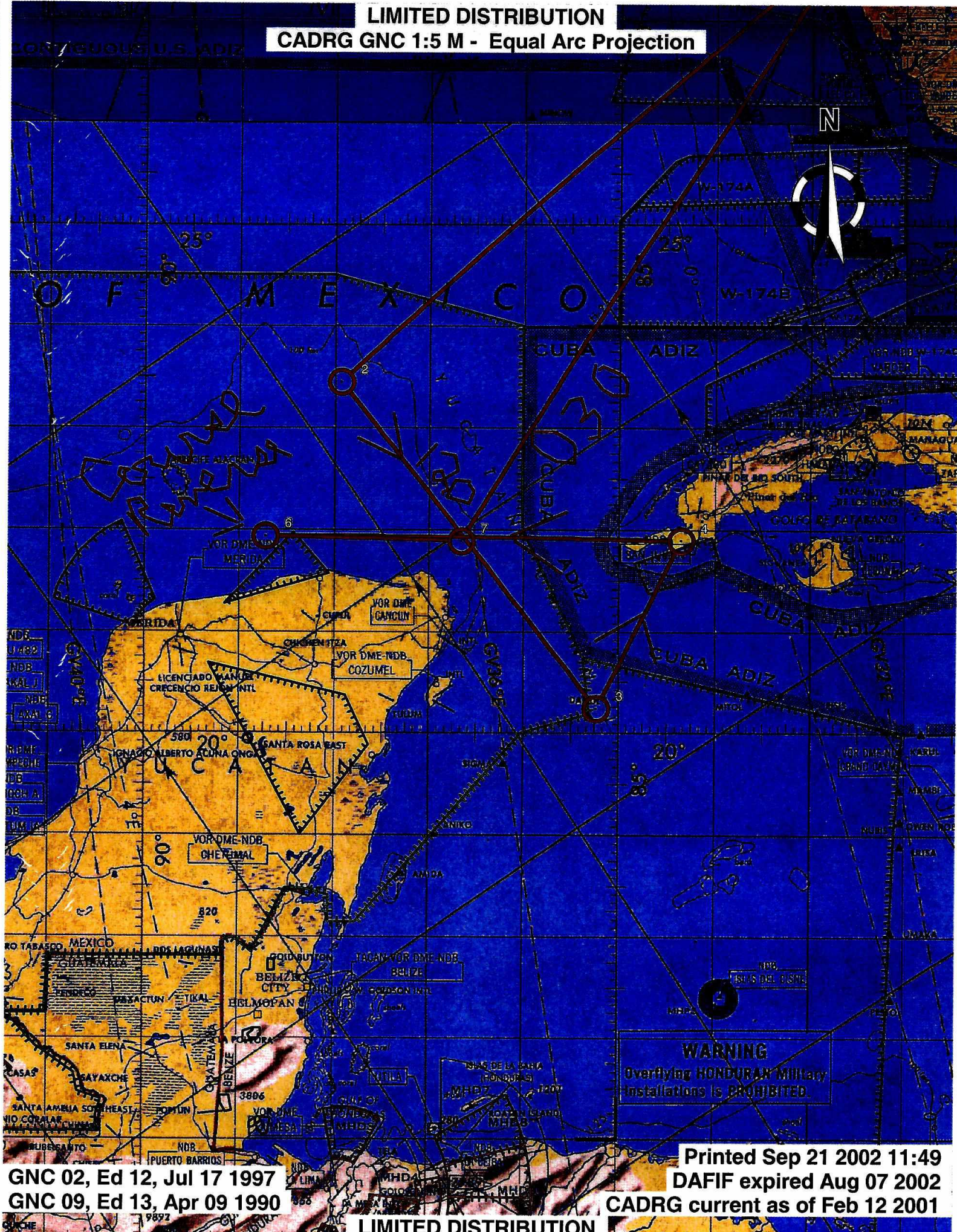


○ BT

X SONDE

⊗ BT/SONDE

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CADRG GNC 1:5 M - Equal Arc Projection



GNC 02, Ed 12, Jul 17 1997
GNC 09, Ed 13, Apr 09 1990

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