

19900927II - AXBT

E.4 Air-Sea Interaction Scientist (On-Board)

The on-board air-sea interaction scientist (ASIS) is responsible for data collection from AXBT's, AXCP's, BUOY's, and sea surface temperature radiometers (if these systems are used on the mission). Detailed calibration and instrument operation procedures are contained in the air-sea interaction (ASI) manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.4.1 Preflight

- _____ 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- _____ 2. Confirm mission and pattern selection from the on-board LPS.
- _____ 3. Select the mode of operation for instruments after consultation with the HRD/ASIS and the on-board LPS.
- _____ 4. Complete appropriate preflight check lists as specified in the ASI manual and as directed from the on-board LPS.

E.4.2 In-Flight

- _____ 1. Operate the instruments as specified in the ASI manual and as directed by the HRD/ASIS, unless superseded by directions from the on-board LPS.

E.4.3 Postflight

- _____ 1. Complete summary check list forms and all other appropriate check list forms.
- _____ 2. Brief the on-board LPS on equipment status and turn in completed check lists to the LPS.
- _____ 3. Debrief as necessary at the appropriate operations center (FGOC or MGOC).
- _____ 4. Determine the status of future missions and notify appropriate operations center (FGOC or MGOC) as to where you can be contacted.

YAXA - IITCP00991

Form E-4
Page 1 of 3

AXBT/AXCP Check Sheet Summary

Flight _____

	<u>Number</u>
(1) Probes dropped	_____
(2) Failures	_____
(3) Failures with no signal	_____
(4) Failures with sea surface temperature, but terminated above thermocline.....	_____
(5) Probes that terminated above 250 m, but below thermocline	_____
(6) Probes used by channel number CH12	_____
..... CH14	_____
..... CH16	_____
..... CH__	_____

NOTES

AXBT and AXCP Check Sheet

Flight Number 900927I

AXBT/AXCP Contract Number new Sippican

Take-off Time _____

Landing Time _____

Storm SFMR test

AXCP/ AXBT#/ Type	Channel Number	Lot Number	Predicted Drop Time (HHMMSS)	Actual Drop Time (HHMMSS)	Predicted Lat. Deg. Min.	Predicted Long. Deg. Min.	Actual Lat. Deg. Min.	Actual Long. Deg. Min.	Surface Temp. AXBT IRT	ASST MLD (m)	Comments
41002 AX1		Sipp		170648				32 20.2 25 11.2	26.6 23.3	3.3	buoy 26.7
41001 AX2		Sipp		174750				34 57.6 72 55.4	25.8 22.6	3.2	buoy 25.3
Stream axis				184650					27.9 26.8		
N Stream				185509				37 34.8 71 21.4	23.4 22.4		
								38 29.5 70 38.7	23.4 20.0	3.4	
44004				193630				40 29.2 69 21.6	23.4 19.5		buoy 22.6
44008				203619				40 29.2 69 21.6	20.3 17.6		buoy 20.2

*M = Magnavox; H = Hermes; S = Sippican.

AXCP Log

Flight Number _____

Storm Name _____

Storm Direction/Speed_____

Take-off Time _____

Landing Time _____

[illegible][illegible]

900927I

22201

0625.3

BUOYS

127

Ts

Ta

41006

29.18.07

77.22.54

~~25.3~~

27.7

27.7

130/05m

120/04

24.8

26.9

41002

32.17.42

75.14.26

26.7

26.7

210/04m

190/03

23.7

23.8

41001

34.53.48

72.58.11

25.3

25.3

080/02m

23.0

→ 36.5 71.5

44004

38.30.00

70.38.36

22.2

22.6

060/05m

20.8°C

21.2

44008

40.30.00

69.28.12

20.2

19.9

090/06m

070/06m

19.0

19.0

near buoy

900927 I

RD	RA	Take off
27.3	1150	off Mia Beach
27.0	1500	
26.4	2000	
26.0	2330	

26.1	3250
26.5	4050

26	24.3	TCU
78	31.8	

24.5	5390
23.9	5400
23.6	5330
24.3	5330

16402

SST $\approx$ 28.0 - 28.5

1705 p1A2

	1558	cal #1	ST205	10K ft	1934	2104
TD#11		1626	1754	5,28°C		
44.75	46.32	46.92	47.05	46.38	47.03	47.03
54.89	54.41	54.35	54.42	53.96	54.23	54.42
57.42	57.12	56.04	56.03	56.63	55.85	56.01
58.79	58.39	58.62	58.13	58.70	58.33	58.29
59.20	58.62	58.11	58.04	58.91	58.12	58.12
54.23	53.59	53.01	52.89	53.74	52.90	52.97

dev today is 1.9 - 2.0

for TD#11, it was .3-.64

1605 periodically throwing out one freq

when freq thrown out, get neg WS, pos RR;
dev unchanged

on HP-85, all freqs look good

HP-85 consistently higher values than ALC syst

list TB¹⁵ - 117.4 116 113 118 114 112

not good
new TB¹⁵

114.6 116.6 117.6 117.8 116.5 115.0

now winds o.k dev = .2

1706

SPWS = 0.3 m/s

pt #2

RD = 23.3

32 16.6 75 14.1

170648 AXBT launch

over cloud SPWS now = 3.3 → 4.6 → 6.7 → 8.0 →

sudden sfc windier

170831

9.7 → 10.3

over cloud (tops at 5 km)

RR = 1.5 - 2.0

SST = ~~23~~ 26.6

sig

171025

158 x 1.5 m/s =

1040 MLD = 23 m deep

15
15
75
225
Sum

RB → #3

1713

RR = 5.0

SPWS = 11.0

1714 sfc winds not 20 kt, past cloud

1715

SPWS = 1.0

RR = .1

1717

RD = 22.5

shower showed up on radar below A/c

as area of stratiform precip; 25-30 dBZ

* perhaps rain roughens sfc when water calm so that it looks like an increase in wind speed

strong inversion below us; clouds topping out & spreading at ~ 5 km

1730

cler now up to 1.8

111 115 119 114 118 116

RD = 23.5

1736 dev on HP-85 = 2.1 also
SFWS = 2.6, up from 0 earlier

it is definitely the instrument, not the
algo

SST jumped up by 1° at 1720, now down
again

* SST = 24 1718 - 1738 warm spot

1745 & RD = 22.6

ST 113.0 116 117.5 114.9 116.6 114.6
↑

1747 RD = 22.6 SFWS = 0 dev = 1.0

174750 AXBT dry

175130 ST 25.8

1754 read SFWS 4.0 25.0
dev now = 1.6

113.7 115.5 116.2 116.5 116.5 115.2

1801 dev = 0.8 SFWS = 1.2

1812 sharp line of echo on radar
30 nmi ahead

* looks like stratiform precip but
is probably Gulf Stream N wall

no clouds visible

1814 start descent

RA	RA
23.7	4600
23.7	3500
23.9	2300
24.3	2000
25.5	1500
26.6	800
26.6	465

1824 at 1500 ft, radar line 20 nmi
behind us
whitecaps wind 10 kt from 360°

37 26.1 71.2/5 SST drop to 22.7
26.6 → 22.7 in 1 min
no whitecaps
WD 0/2 WS 05

37 26.1 77 27.5

1832 going to 500 ft

	RD	RA	WD	WS	TA	TD
	23.2	153	023	14	26.1	18.4
1837	22.7					
	22.6					
1839	22.5					

1840 27.0

1842 26.2

1842.2 roughness increase on spec - ship to right
turbulence increase also crossed over wake

27.4 340 16

1846.5 drop SST = 27.9

26.8

3 11 11

1849.14 roughness decrease

4950 26.0 311 13 white caps

5138 22.1 325- 12 no white caps
line or slick on spec

5248 removed lines
loud base just above us ~ 500m
350001 08

18550.9 22.4 SST = 23.4

	RD		
1902	21.4	1508	3/2 10
190410	25.1		abrupt RD increase
190502	white caps - roughness increase		
1906	real roughness increase, start turn		
1908	passing through haze layer 2740m		
1910	22.8	3034	
1914	23.7		
191558	20.9		
1630	20.3	3028	
192200	white caps again ~ 15kt on sfc		
1924 192415	head line)		
192420	fewer white caps wind ~ 10kt		
192530	RD 20.0	5380	
1930	no white caps		
193630	AXDT	end local SPMQ	
	RD = 19.5	SST = 23.4	
194015	AX sig		

157 7954 slide off to right

1955 - another line in sea latter 40
n.m. ahead

RD = 18.8

1957 RD = 18.6

195858 RD = 17.5 crossed shelf water boundary
40°02.0 69 43.5

200100 RD = 16.7

2004 RD = 16.3

200430 buoy visible on right side of AC
1 mi away

40 32.7 69 26.8

2008 fast descent 3000 ft/min
gear down

2010 40 at 3004

RD = 17.4 3020

2014 RD = 18.3 3027
17.9

201520 buoy ahead 1 mi to right
201415 RD = 16.7 WD 060 light

201630 RD = 15.1 before turn

RD 19.1 1501

202360 20.1

202436 19.7

202450 19.0

2574 17.3

2640 16.3

~~low ahead~~
high ahead

202900 16.3 450

2920 17.5

203050 18.3 450

WD 035/08

203230 19.0

203430 19.25

WD 025/04

203620 AXBT drops 200 yds from ^(south) bay

203700 passed white weed line

AX SST = 20.3

RD = 12.6

RA

RD = 16.3

160

204258

18.1

160

17.1

204353

20.0

160

WD 034/12

	17.8	240	
	17.2	900	
	17.4	1200	
	16.6	2300	
	17.1	3100	
204929	18.4		shelf break front
	18.1	4000	
	18.8	6000	

2104 recal SFMR

RD = 19.2 SST = 23.0 wind = 3.0

still getting bad WS -8.0 RR = 2.12

using tropical cyclone sounding - not realistic today

2109 boundary line in sea lyster appears
on radar again 100 km ahead
38 32.6 70 37.0

211030 RD = 19.5 over buoy 44004
buoy = 22.6 AXBT = 23.4

KD

~~212~~ 212040 20.1

2100 19.9

2130 19.7

2200 19.8

2230 19.8

2300 19.6

2330 19.5

2400 19.8

07 20.5

10 20.8

212413 20.6

25 22.5

30 22.7

212500 22.9

32 37 180 71271

RA = 6940

AXBT warm side: 27.9

AXBT cold side: 23.4

1825 ⁰⁰	460	37 18.0	71 26.8	26.5	-1.4
1827 ⁰⁰		37 24.8	71 22.6	26.5	
27 10		25.3	22.2	22.3	
1831 ⁰⁰		38.1	71 4.0	22.6	-1.0

1834 ¹⁰	220	37 43.0	71 18.5	23.2	0.0
39 50		22.4	71 28.9	23.6	
1840 ⁰⁰		21.8	29.3	25.8	
40 10		21.3	29.7	26.9	-0.9
43 30		09.6	37.0	27.4	

1.8
3.7
5.4

51 25	460	21.6	30.4	26.3	-1.6
1851 ³⁰		37 21.9	71 30.2	25.9	> 3.2°C/500m
51 35		22.2	30.1	22.7	
51 40		22.5	29.9	22.0	-0.9

18 59 ⁰⁰	1506	37 38.6	71 19.0	21.9	-1.6
19 03 ³⁵		22.1	29.1	21.8	
40		21.8	29.2	24.6	
45		24.8	29.2	24.6	
		26.5	29.4	24.8	-3.1
1905 ⁰⁰		17.0	32.3	25.0	

1912 ⁰⁰	3030 2040	37 04.0	71 48.1	23.8	-4.2
1915 ⁵⁰		18.5	39.7	23.4	
55		19.8	39.5	20.8	
1920 ⁰⁰		34.9	30.3	20.4	-2.8

~~213730~~

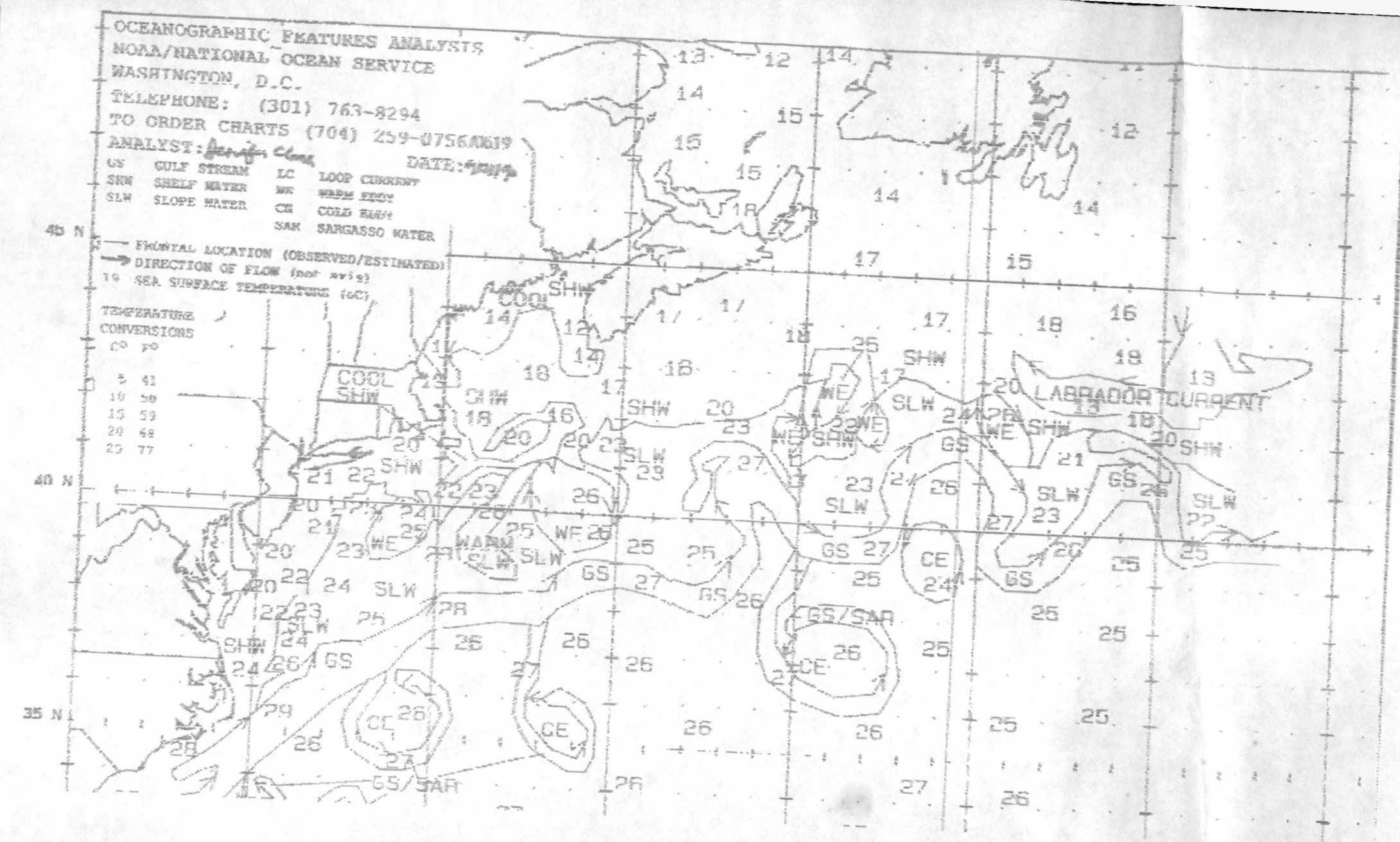
~~2124~~

212200	37 32.0	71 17.2	19.7	-3.4
2420	20.5	24.5	20.3	
2425	20.1	24.8	22.2	
2430	19.7	25.1	22.7	-5.2
2555	37 12.7	29.7	22.8	

OCEANOGRAPHIC FEATURES ANALYSTS
 NOAA/NATIONAL OCEAN SERVICE
 WASHINGTON, D.C.
 TELEPHONE: (301) 763-8294
 TO ORDER CHARTS (704) 259-0756/619
 ANALYST: *Smith, Charles* DATE: *4/24/74*

GS GULF STREAM LC LOOP CURRENT
 SHW SHELF WATER WK WARM Eddy
 SLW SLOPE WATER CE COLD Eddy
 SAR SARGASSO WATER

45 N
 — FRONTAL LOCATION (OBSERVED/ESTIMATED)
 → DIRECTION OF FLOW (not axis)
 19 SEA SURFACE TEMPERATURE (°C)
 TEMPERATURE CONVERSIONS
 °C °F
 5 41
 10 50
 15 59
 20 68
 25 77



OCEANOGRAPHIC FEATURES ANALYSIS

NOAA/NATIONAL OCEAN SERVICE

WASHINGTON, D.C.

TELEPHONE: (301) 763-8294

TO ORDER CHARTS (704) 259-0756

ANALYST: P.T. REILLY

DATE: 20 Sep 1970

GS GULF STREAM LC LOOP CURRENT

SWW SHELF WATER WE WARM EDDY

SLW SLOPE WATER CE COLD EDDY

SAK SARGASSO WATER

FRONTAL LOCATION (OBSERVED/ESTIMATED)

DIRECTION OF FLOW (not axis)

SEA SURFACE TEMPERATURE (°C)

TEMPERATURE

CONVERSIONS

°C °F

5 41

10 50

15 59

20 68

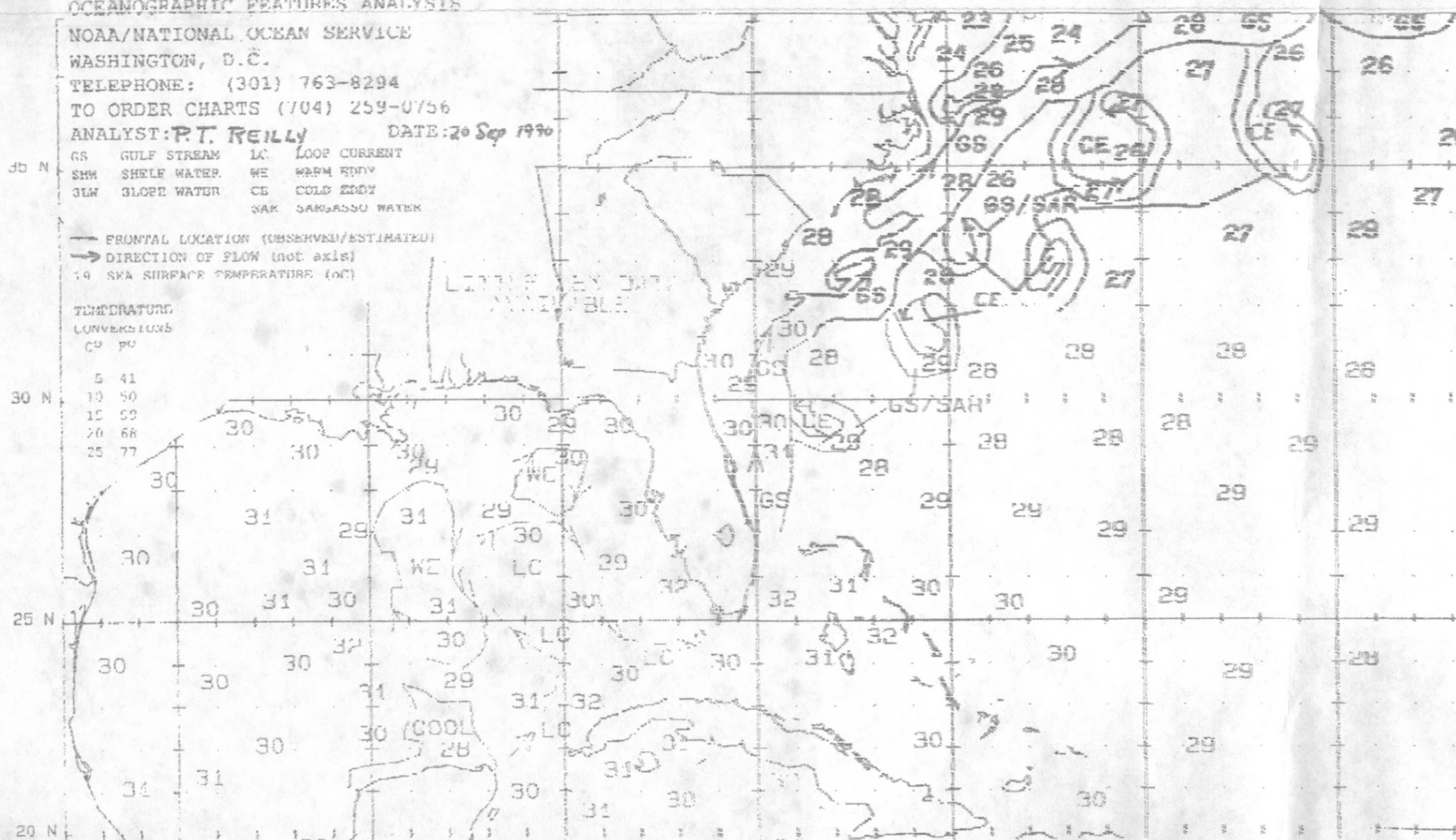
25 77

35 N

30 N

25 N

20 N



5 41
10 50
15 59
20 68
25 77

40 N

35 N

44005

44009

44001

44002

44006

SHW

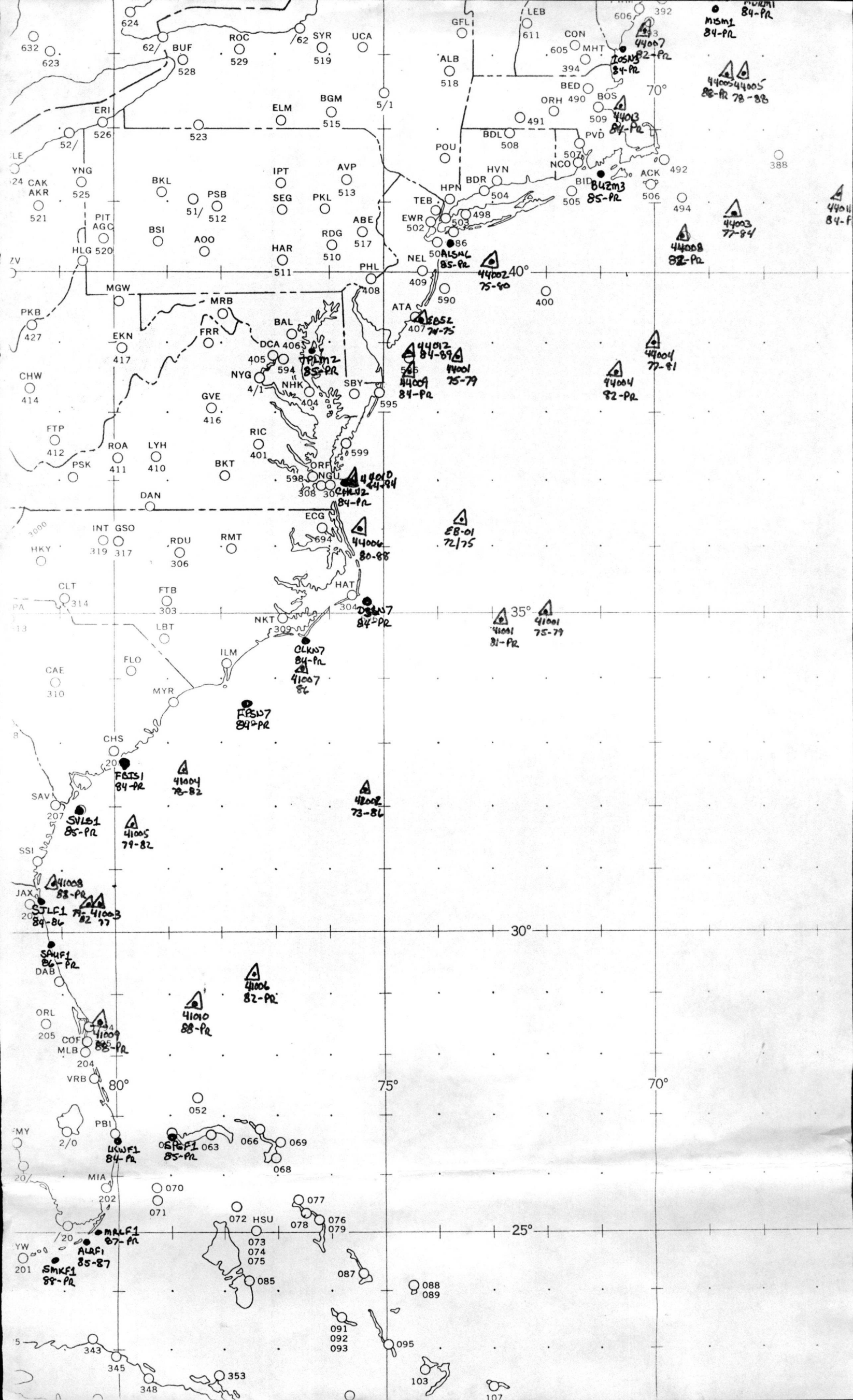
SLW

WARM

CE

GS/SAR

CE LOCATION ARE UNCERTAIN





U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Data Buoy Center
Stennis Space Center, Mississippi 39529-6000
September 17, 1990

NDBC DATA PLATFORM STATUS REPORT
September 6, 1990 - September 13, 1990

MOORED BUOYS			PERCENT OF DATA DISSEMINATED IN REAL TIME				
STATION ID	HULL NO./CONFIG. AND LOCATION	LOCATION LAT / LONG	SEA LEVEL PRESS	WIND SPEED & DIR	AIR TEMP	SEA SFC TEMP	SIG WAVE HT.
32302	3D03 /D TOGA 2	18.0S/ 85.1W	S	S	S	S	S
41001*	6N04 /D E HATTERAS	34.9N/ 73.0W	98	99	98	98	98
41002*	6N23 /G S HATTERAS	32.3N/ 75.2W	98	98	98	S	96
41006*	6N12 /D E DAYTONA	29.3N/ 77.4W	98	98	98	98	98
41008	3D16 /D E JACKSONVILLE	30.7N/ 81.1W	95	95	95	95	95
41009	3D17 /D CANAVERAL	28.5N/ 80.2W	99	99	99	99	99
41010	10D08/D CANAVERAL EAST	28.9N/ 78.5W	100	100	100	100	99
42001*	10D11/D MID GULF	25.9N/ 89.7W	95	98	96	95	93
42002*	10D9 /D W GULF	25.9N/ 93.6W	98	99	98	98	98
42003*	10D10/D E GULF	25.9N/ 85.9W	98	98	98	98	98
42007	12D03/V OTP	30.1N/ 88.8W	98	99	99	98	E
42015	3D14 /D MOBILE BAY	30.2N/ 88.2W	90	90	90	90	90
42016	3D10 /D MOBILE BAY 2	30.2N/ 88.1W	98	98	98	98	98
42019	3D23 /D LANELLE	27.9N/ 95.0W	95	95	95	95	95
42020	3D22 /D EILEEN	27.0N/ 96.5W	99	99	99	98	98
44004*	6N06 /D HOTEL	38.5N/ 70.6W	99	100	99	99	99
44005*	6N29 /D GULF OF ME	42.7N/ 68.6W	95	96	95	95	93
44007*	LNB9 /D PORTLAND	43.5N/ 70.1W	99	99	99	99	99
44008*	LNB07/D NANTUCKET	40.5N/ 69.5W	96	97	97	96	94
44009*	LNB6 /D DELAWARE BAY	38.5N/ 74.6W	98	98	98	98	98
44011*	6N02 /D GEORGES BANK	41.1N/ 66.6W	96	96	96	95	92
44012*	LNB1 /D FIVE FATHOM	38.8N/ 74.6W	86	86	86	86	86
44013*	LNB12/D BOSTON	42.4N/ 70.8W	98	98	98	98	98
45001*	3D18 /D MID SUPERIOR	48.0N/ 87.7W	98	98	98	98	98
45002*	12D08/G N MICHIGAN	45.3N/ 86.4W	98	98	98	98	98
45003*	6N10 /G N HURON	45.3N/ 82.7W	97	97	97	97	97
45004*	12D07/G E SUPERIOR	47.5N/ 86.5W	96	97	98	96	95
45005*	3D19 /D W ERIE	41.7N/ 82.4W	97	97	97	97	97
45006*	3D02 /D W SUPERIOR	47.3N/ 89.9W	99	99	99	99	99
45007*	3D08 /D S MICHIGAN	42.7N/ 87.1W	79	79	79	79	77
45008*	6N15 /G S HURON	44.3N/ 82.4W	95	98	98	95	95
46001*	6N21 /D GULF OF AK	56.3N/148.3W	98	99	99	98	96
46002*	6N28 /D OREGON	42.5N/130.4W	98	98	98	98	98
46003*	6N01 /D S ALEUTIANS	51.9N/155.9W	99	99	99	99	98
46005*	6N19 /G WASHINGTON	46.1N/131.0W	S	S	S	S	S
46006*	12D1 /D SE PAPA	40.8N/137.7W	91	91	91	91	89
46010*	LNB10/D COLUMBIA	46.2N/124.2W	99	99	99	99	97
46011	6N17 /G SANTA MARIA	34.9N/120.9W	94	94	96	93	93
46012	10D5 /G SANTA CRUZ	37.4N/122.7W	98	99	99	98	98



MOORED BUOYS			PERCENT OF DATA DISSEMINATED IN REAL TIME				
STATION ID	HULL NO./CONFIG. AND LOCATION	LOCATION LAT / LONG	SEA LEVEL PRESS	WIND SPEED & DIR	AIR TEMP	SEA SFC TEMP	SIG WAVE HT.
46013	10D1 /G BODEGA	38.2N/123.3W	99	99	99	99	S
46014	6N13 /G PT ARENA	39.2N/124.0W	96	96	96	96	96
46022	6N11 /G EEL RIVER	40.8N/124.5W	S	S	S	S	S
46023	10D2 /G PT CONCEPTION	34.3N/120.7W	96	97	98	96	96
46025	6N07 /G CATALINA RDG	33.7N/119.1W	71	71	71	71	69
46026*	LNB5 /D SAN FRANCISCO	37.8N/122.7W	R	R	R	R	R
46027*	ELB17/D ST GEORGES	41.8N/124.4W	98	S	98	98	98
46028	6N14 /G C SAN MARTIN	35.8N/121.9W	99	99	99	99	99
46030	ELB20/D BLUNTS REEF	40.4N/124.5W	15	15	15	15	14
46035	12D2 /D BERING SEA	57.0N/177.7W	95	98	98	24	92
46040	3D12 /D C FOULWEATHER	44.8N/124.3W	98	98	98	98	98
46041	3D13 /D C ELIZABETH	47.4N/124.5W	87	87	87	87	86
46042	3D06 /D MONTEREY	36.8N/122.4W	96	97	96	96	96
51001*	6N24 /G NW HAWAII	23.4N/162.3W	97	98	99	96	96
51002*	6N27 /G SW HAWAII	17.2N/157.8W	S	S	S	S	S
51003*	6N26 /G W HAWAII	19.2N/160.8W	98	98	98	98	97
51004*	6N20 /G SE HAWAII	17.5N/152.6W	99	99	99	99	98

*Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

REMARKS: 32302 - Buoy failed 5/3/90. Data from backup payload released under WMO ID 32814.

41002 - Ocean temperature data failed 5/2/90. Serviced, data restored 9/13/90.

42007 - Wave data withheld for evaluation 7/24/90.

44012 - Buoy retrieved 3/2/89 for U. S. Coast Guard overhaul. Buoy redeployed, data restored 9/6/90.

45007 - Intermittent data transmission problems.

46005 - Buoy data failed 8/17/90.

46013 - Wave data failed 8/8/90. Buoy serviced, data restored 9/14/90.

46022 - Buoy data failed 7/15/90.

46025 - Intermittent transmission problem.

46026 - Buoy retrieved by USCG for refurbishment 7/6/90.

46027 - Wind data failed 7/5/90.

46030 - Buoy data failed 9/9/90.

46035 - Ocean temperature data failed 2/5/90, restored 9/11/90.

46041 - Buoy data failed 9/9/90, restored 9/10/90.

51002 - Buoy data failed 6/11/90. Buoy exchange scheduled week of 9/29/90.

NDBC MOORED BUOY STATION LEGEND:

HULL NO./CONFIGURATION

<u>Hull Type</u>	<u>Anemometer Ht</u>	<u>Payload Types</u>
12D - 12-meter discus	10 m	G - GSBP
10D - 10-meter discus	10 m	D - DACT
6N - 6-meter NOMAD	5 m	V - VEEP
3D - 3-meter discus	5 m	
LNB - USCG Large Navigational Buoy	13.8 m	
ELB - USCG Exposed Location Buoy	6.6 m	

Example: 6N29/G means 6-meter NOMAD buoy, hull number 29, with GSBP payload.

DATA STATUS

S - Sensor/system failure
R - Buoy Retrieved

D - Buoy off station or adrift
E - Data under evaluation, not reported

C-MAN STATIONS			PERCENT OF DATA DISSEMINATED IN REAL TIME					
STATION ID	LOCATION/CONFIG.	LOCATION LAT / LONG	SEA LEVEL PRESS	WIND SPEED &DIR	AIR TEMP	SEA SFC TEMP	SIG WAVE HT.	T I D
ALSN6*	Ambrose Light, NY/D	40.5N/ 73.8W	99	99	99	99	93	N
BURL1*	Southwest Pass, LA/D	28.9N/ 89.4W	96	96	96	N	N	N
BUZM3*	Buzzards Bay, MA/D	41.4N/ 71.0W	97	97	97	N	N	N
CARO3*	Cape Arago, OR/D	43.3N/124.4W	98	98	98	N	N	N
CHLV2*	Chesapeake Light, VA/D	36.9N/ 75.7W	99	99	99	99	82	N
CLKN7*	Cape Lookout, NC/D	34.6N/ 76.5W	99	99	99	N	N	N
CSBF1*	Cape San Blas, FL/V	29.7N/ 85.4W	11	12	12	N	N	N
DBLN6*	Dunkirk, NY/V	42.5N/ 79.4W	94	94	94	N	N	N
DESW1*	Destruction Is., WA/D	47.7N/124.5W	96	96	96	N	N	N
DISW3*	Devils Island, WI/D	47.1N/ 90.7W	96	97	97	N	N	N
DPIA1*	Dauphin Island, AL/V	30.3N/ 88.1W	96	96	96	N	N	Y
DSL7*	Diamond Shls Lt., NC/D	35.2N/ 75.3W	98	98	98	98	93	N
ENIP2	Enewetak, Marshalls/D	11.4N/162.4E	91	92	92	N	N	N
FARP2	Faraulep I., Carolines/D	8.6N/144.6E	66	67	67	N	N	N
FBIS1*	Folly Island, SC/D	32.7N/ 79.9W	82	82	82	N	N	N
FFIA2*	Five Finger, AK/D	57.3N/133.6W	96	96	96	N	N	N
FPSN7*	Frying Pan Shoals, NC/D	33.5N/ 77.6W	98	98	98	S	S	N
GBCL1	Garden Banks Blk 236A/V	27.8N/ 93.1W	98	98	98	98	97	N
GDIL1*	Grand Isle, LA/D	29.3N/ 90.0W	98	98	98	S	N	S
GILN6*	Galloo Island, NY/V	43.9N/ 76.4W	98	98	98	N	N	N
IOSN3*	Isle of Shoals, NH/D	43.0N/ 70.6W	98	98	98	N	N	N
KOSP2	Kusaie I., Carolines/D	5.2N/163.0E	95	97	96	N	N	N
LKWF1*	Lake Worth, FL/V	26.6N/ 80.0W	97	97	97	N	N	N
MDRM1*	Mt Desert Rock, ME/D	44.0N/ 68.1W	99	99	99	N	N	N
MISM1*	Matinicus Rock, ME/D	43.8N/ 68.9W	97	97	97	N	N	N
MLRF1*	Molasses Reef, FL/D	25.0N/ 80.4W	96	97	96	96	N	N
MPCL1	Main Pass Blk 133, LA/V	29.4N/ 88.6W	91	91	91	91	90	N
NWPO3*	Newport, OR/D	44.6N/124.1W	95	96	96	N	N	N
PAGP2	Pagan I. Marianas/D	18.1N/145.8E	92	92	92	N	N	N
PILM4*	Passage Island, MI/V	48.2N/ 88.4W	23	23	23	N	N	N
PTAC1*	Point Arena, CA/D	39.0N/123.7W	97	98	98	N	N	N
PTAT2*	Port Aransas, TX/V	27.8N/ 97.1W	98	98	98	98	N	Y
PTGC1*	Point Arguello, CA/D	34.6N/120.7W	98	98	98	N	N	N
ROAM4*	Rock of Ages, MI/D	47.9N/ 89.3W	99	99	99	99	N	N
SAUF1*	St. Augustine, FL/V	29.9N/ 81.3W	98	98	98	98	N	Y
SBIO1*	South Bass Island, OH/D	41.6N/ 82.8W	99	99	99	N	N	N
SGNW3*	Sheboygan, WI/D	43.8N/ 87.7W	97	97	97	N	N	N
SISW1*	Smith Island, WA/D	48.3N/122.8W	98	98	98	N	N	N
SMKF1*	Sombrero Key, FL/D	24.6N/ 81.1W	99	99	99	99	N	N
SPGF1*	Settlement Point, GBI/V	26.7N/ 79.0W	98	98	98	98	N	Y
SRST2*	Sabine, TX/V	29.7N/ 94.1W	98	98	98	N	N	N
STDM4*	Stannard Rock, MI/D	47.2N/ 87.2W	43	43	43	N	N	N
SVLS1*	Savannah Light, GA/D	32.0N/ 80.7W	98	98	S	N	N	N

C-MAN STATIONS			PERCENT OF DATA DISSEMINATED IN REAL TIME					
STATION ID	LOCATION/CONFIG.	LOCATION LAT / LONG	SEA LEVEL PRESS	WIND SPEED &DIR	AIR TEMP	SEA SFC TEMP	SIG WAVE HT.	T I D
TPLM2*	Thomas Point, MD/V	38.9N/ 76.4W	96	98	98	96	N	N
TTIW1*	Tatoosh Island, WA/D	48.4N/124.7W	S	S	S	N	N	N
UJAP2	Ujae Atoll, Marshalls/D	8.9N/165.7E	96	96	96	N	N	N
VENF1*	Venice, FL/V	27.1N/ 82.5W	8	98	98	98	N	Y
WPOW1*	West Point, WA/D	47.7N/122.4W	95	95	95	N	N	N

*Primarily for National Weather Service (NWS) support; however, all stations report data to NWS.

REMARKS: CHLV2 - Intermittent wave data transmissions.
 CSBF1 - Station failed 9/7/90, serviced and restored 9/11/90, refailed 9/12/90.
 FARP2 - Data transmission problems. Station serviced 9/13/90.
 FBIS1 - Station failed 9/3/90, serviced and restored 9/9/90.
 FPSN7 - Ocean temperature failed 11/6/88. Wave data failed 2/20/89.
 GDIL1 - Tide data failed 5/3/88. Rain gauge failed 11/16/89. Dew point failed 11/28/89. Ocean temperature sensor damaged 3/1/90. Station service and upgrade tentatively scheduled in early November.
 PILM4 - Station failed 9/1/90, serviced and restored 9/11/90.
 PTAC1 - Rain gauge failed 3/13/90.
 SGNW3 - Relative humidity failed 3/1/90.
 SRST2 - Rain gauge failed 11/2/89.
 STDM4 - Station serviced 9/11 - 9/12/90, data restored and dew point added 9/13/90.
 SVLS1 - Air temperature data failed 5/15/90. Service visit scheduled week of 9/10/90.
 TTIW1 - Data unavailable 8/26/90 due to USCG station maintenance.
 VENN1 - Pressure data failed 9/4/90. Station serviced, data restored 9/12/90.

NDBC C-MAN STATION LEGEND:

Payload Types

D - DACT
 V - VEEP

C-MAN anemometer heights are listed in the C-MAN User's Guide.

DATA STATUS

S - Sensor/system failure E - Data under evaluation, not reported
 N - No sensor installed Y - Parameter reported, no percentage available

DRIFTING BUOYS					DATA DISSEMINATED THRU GTS						
STATION ID	ARGOS ID	LAST LOCATION (LAT/LONG)	AGENCY	DATE OF LAST LOCATION	SEA LVL PRS	WND SPD	WND DIR	AIR TMP	SEA SFC TMP	Tz	DROG Y/N
14803	8844	24°S/052°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
14804	8845	21°S/059°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
17803	5571	42°S/086°E	TOGA	13 Sep 90	X	X	X	S	X	N	YES
17804	12300	43°S/035°E	TOGA	13 Sep 90	X	N	N	S	X	N	NO
17805	12304	44°S/041°E	TOGA	13 Sep 90	X	N	N	S	X	N	NO
32814	7491	18°S/085°W	NDBC	13 Sep 90	X	N	N	X	X	N	NO
33824	8966	40°S/021°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
33826	12296	55°S/019°W	TOGA	13 Sep 90	X	N	N	X	X	N	NO
33827	12297	48°S/005°W	TOGA	13 Sep 90	X	N	N	X	X	N	NO
33828	12298	47°S/004°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
54829	6762	36°S/157°W	TOGA	13 Sep 90	X	N	N	S	X	N	NO
54830	6763	51°S/149°W	TOGA	13 Sep 90	X	N	N	X	X	N	NO
54831	6764	50°S/142°W	TOGA	13 Sep 90	X	N	N	X	X	N	NO
54832	6585	45°S/168°W	TOGA	13 Sep 90	X	X	X	X	X	N	YES
54833	6586	49°S/146°W	TOGA	13 Sep 90	X	X	X	X	X	N	YES
54834	6583	37°S/162°W	TOGA	13 Sep 90	X	X	X	X	X	N	YES
54835	6731	32°S/157°W	TOGA	13 Sep 90	X	N	N	X	X	N	NO
55802	8843	17°S/073°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
56829	9222	17°S/058°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO
56830	12290	24°S/091°E	TOGA	13 Sep 90	X	N	N	X	X	N	NO

REMARKS: 242 drifting buoys have been deployed in support of TOGA; 19 are operational.

17803 - Air temperature sensor failed during deployment 10/29/89.
 17804 - Air temperature sensor failed 5/19/90.
 17805 - Air temperature sensor failed 7/31/90.
 32814 - Backup payload reporting aboard moored buoy 32302.
 33823 - Data deleted from distribution 9/12/90 due to bad positions.
 54829 - Air temperature sensor failed 8/4/90.

DRIFTING BUOY LEGEND:

AGENCY

TOGA - Tropical Ocean and Global Atmosphere Research Program
 NDBC - National Data Buoy Center

DRIFTING BUOY
DATA STATUS

X - Parameter reported
S - Sensor failure
R - Buoy retrieved
N - No sensor installed

Q - Data questionable, but reported
E - Data under evaluation, not reported
B - Buoy beached, sensor reporting

PSOS STATIONS		REAL TIME DATA DISSEMINATED TO PCC				
STATION ID	LOCATION	SEA LEVEL PRESS	WIND SPEED &DIR	AIR TEMP	PRECIP	REL HUMID
PLTC2	Platteville, CO	E	E	E	E	E
WSMN5	White Sands M. R., NM	E	E	E	E	E

REMARKS: PLTC2 - Profiler down for repairs 9/10/90, only intermittent data.
WSMN5 - Surface observing system installed 8/30/90.

NDBC PSOS STATION LEGEND:

All Profiler Surface Observing System (PSOS) stations are equipped with the Value Engineered Environmental Payload (VEEP).

Anemometers at all PSOS stations are 10 m above the site.

DATA STATUS

S - Sensor/system failure
N - No sensor installed

E - Data under evaluation, not reported
Y - Parameter reported, no percentage available

Eric Meindl

W/DB3 Eric Meindl
(601) 688-1717
FTS 494-1717

Distribution:	W/DB	W/DB2/WB	W/DB3/DG	W/DB4/WBW	CSC/T.Towles
	W/DB1	W/DB2/DRS	W/DB3/SN	W/DB5	CSC/G.Dunn
	W/DB1/JKS	W/DB2/MKB	W/DB4(2)	DCAS/K.McNeal	CSC/D.Guenard
	W/DB1/DWM	W/DB3	W/DB4/RHC	CSC/H.Daman	CSC/C.Bond
	W/DB2	W/DB3/EM	W/DB4/LJL(2)	CSC/F.Abell(4)	CSC/R.Carolan
					TDR(101-12.02)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL DATA BUOY CENTER
STENNIS SPACE CENTER, MISSISSIPPI 39529-6000

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM-210

FIRST CLASS



(AN EQUAL OPPORTUNITY EMPLOYER)

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

DR. PETER BLACK
ATLANTIC OCEANOGRAPHIC AND
METEOROLOGICAL LABORATORY
ADML/HRD
4301 RICKENBACKER CAUSEWAY
MIAMI, FL 33149

OCEANOGRAPHIC FEATURES ANALYSIS

NOAA/NATIONAL OCEAN SERVICE

WASHINGTON, D.C.

TELEPHONE: (301) 763-8294

TO ORDER CHARTS (704) 259-0756/0619

ANALYST: *John C. Clark*

DATE: *7/17/76*

GS GULF STREAM LC LOOP CURRENT

SHW SHELF WATER WE WARM EDDY

SLW SLOPE WATER CE COLD EDDY

SAR SARGASSO WATER

FRONTAL LOCATION (OBSERVED/ESTIMATED)

DIRECTION OF FLOW (not axis)

19 SEA SURFACE TEMPERATURE (°C)

TEMPERATURE

CONVERSIONS

°C °F

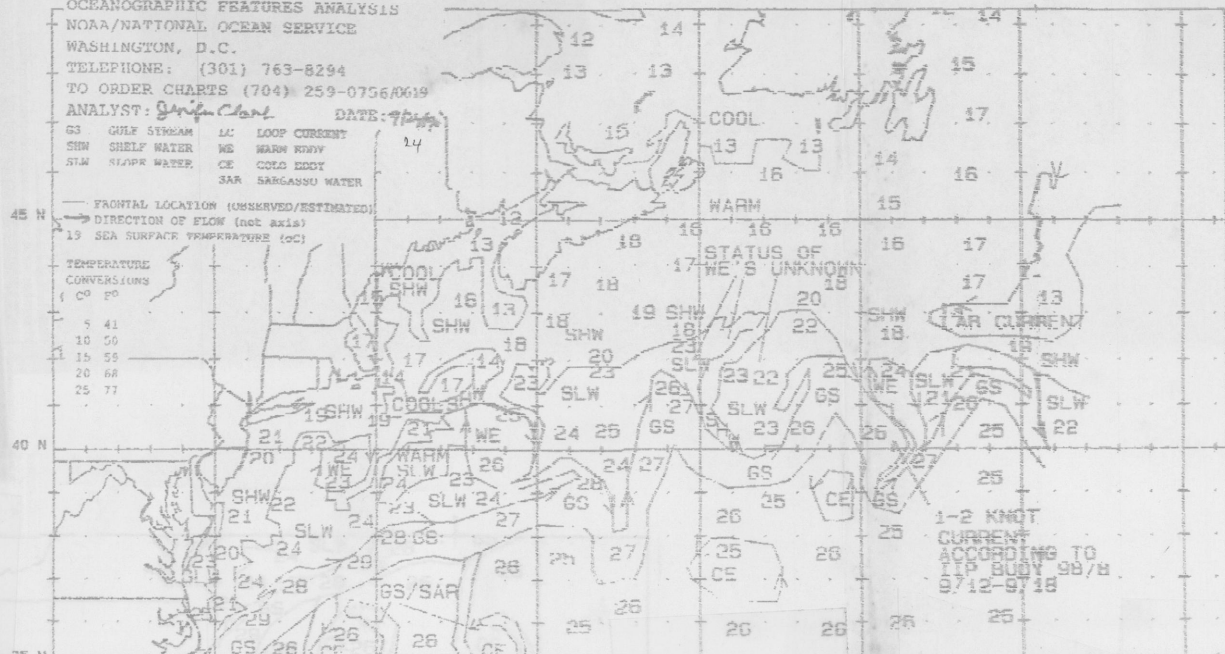
5 41

10 50

15 59

20 68

25 77



OCEANOGRAPHIC FEATURES ANALYSIS

NOAA/NATIONAL OCEAN SERVICE

WASHINGTON, D.C.

TELEPHONE: (301) 763-8294

TO ORDER CHARTS (704) 259-0756/0619

ANALYST: *John C. Clark*

DATE: *7/17/76*

GS GULF STREAM LC LOOP CURRENT

SHW SHELF WATER WE WARM EDDY

SLW SLOPE WATER CE COLD EDDY

SAR SARGASSO WATER

FRONTAL LOCATION (OBSERVED/ESTIMATED)

DIRECTION OF FLOW (not axis)

19 SEA SURFACE TEMPERATURE (°C)

TEMPERATURE

CONVERSIONS

°C °F

5 41

10 50

15 59

20 68

25 77

