3.0					
	U.S. DEPT. COMP	1./NORA/0A0 - D	ATA SECTION	WORK FORM NO.1 DROWET FILE	
	FLT ID: 9508017	FM: Mar D. VI		TO: BOCA CHICA NAS	
	FLT NO: 95-54	BLK IN: 025	97	ATA: 6254.	
	ETD: 192	BLK OUT: 185		RTD: 1909	
	ETE: 9	BLK TIME: 8:00		FIT TIME	
	SPONSOR ORG: HAD	PROGRAM: Zesa		FLT TIME: 7:45 (7.8)	
••	H/W/	OAO PERSO		PURPOSE: Canoffall	
	RC Va V	ONG PERSO			
	remedy			coles	
	CP O'Mara		DATA SYS	Lynch -	
	21- Pathbun		RADAR M	Millan	
	FE Bast / Moore V		BT/ODW		
	RADIO Some Souci		CLD PHYS		
	FD Parrish		DOPPLER		
1981	PARTI	CIPATING SCIENT		25.7000	
	LAST, FIRST NAME	ACTIVITY ON A			
Act	Camache V	1		AFFILIATION	
24.53 1012.B	Br. A	T.		(fA)	
21.7/	RI II	1 Zadar	-2		
17.7	1 5000			=====	
10120	Lott	Visito-		Vansa Jord	
5/10116	2 McKenray BY	. eç		Thrustopo 17	
8,014	n				
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
29.75	47				
1007.0	PROPOSED/ACTUAL MISSION/R	EMARKS (RECCO,	FIXES, STORM	PENET NHOP #1	
Em. 1	ing with any Cotaling	Tig, 4 on E	Fin until	within range land	
1007.6 En.5X	1. 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	CIM YOUT			
	6215 - Sean says I har	of MINOSS de	du 4 30.0	it he will rend now	
	6 2650	0128057 27908	80.790116	· · · · · · · · · · · · · · · · · · ·	
1	\$ 20542 26-31; 28-09/ \$ 22092 26 330, 7821!	01502 27011	W, 790/60		
		3 penetra to		•	
	9 23412 26°50N, 78°43'	1 - 110	,	4	
	90312 26°52'D, 79001'W				
		<i>s</i>			
	59				

## NOAA • AOC• SED Flight Performance Log

Aircraft: N43RF

Project: Hurricane '95

Mission : ERIM

SED Crew: Roles, Lynch, McMILLAN

Flight ID : 950801 I

Pre-Flight: 16582

Take-Off: 19:08:50

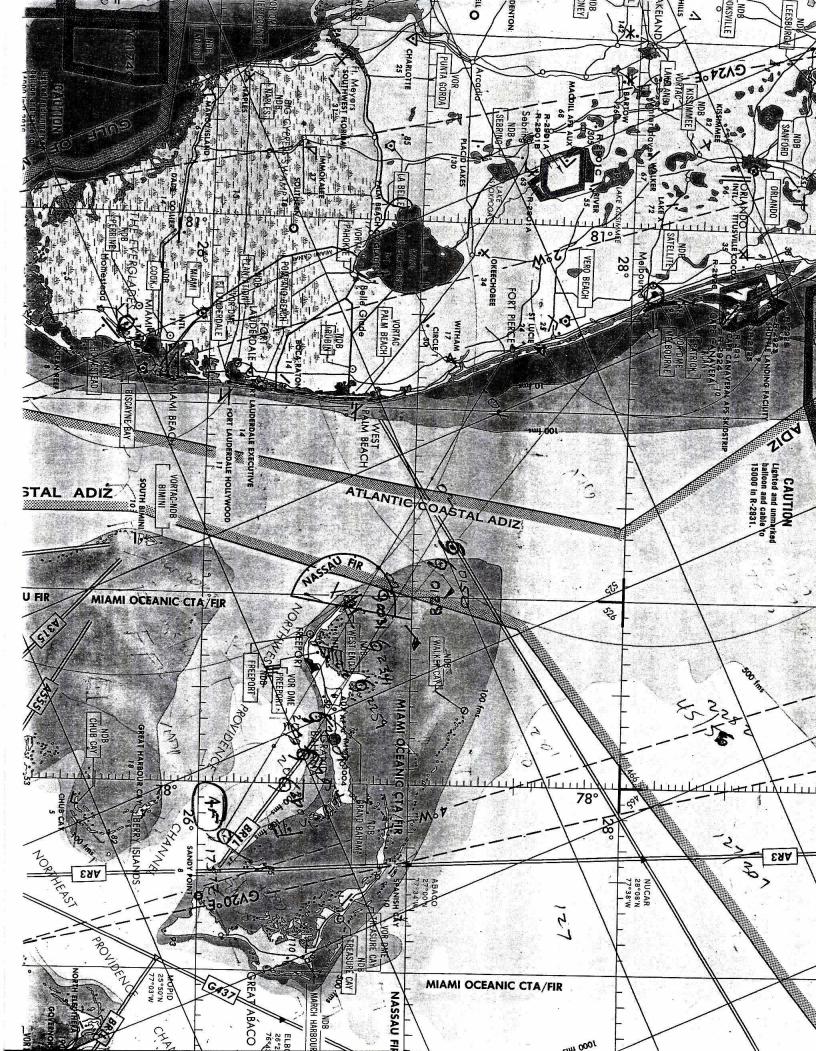
Landing: 02 53 56

(2)	Stotes	Res Eliakt	In Flore	Doct Flight
	System	Pre-Flight	In-Flight	Post-Flight
N	INE #1 1658 Aligned to :	ar at a second a second to self-	STM	4.1 +.6 7
A V	INE #21658 Aligned to :		STM	-3.1 +3.6 5
Ľ	GPS 1658		STM	Lat Long GS
R	Nose	(2) STM	STM	
Α	L/F R/T SN: 102	(3)		Mod Switch Off? V
D	Tail R&T SN : 202/201	14-4-11		Mod Switch Off?   ✓
A R	ASAU's & RCU		in the second se	The second second
	MARS Data System			# DATs : /
Р	2DG-C Ch 1/64:2.1 / 2.1	1 m	(13)	= 200
М	2DG-P Ch 1/64: 2 17 / 2.7	de		
S	FSSP Ref VDC: 7,91)	at		
	SEA Data System	"OPL	*	#DATs: 2
	Cal High Cal Low	111111111111111111111111111111111111111	11/11/11/11/	Cal High Cal Low
т	Temp #1 +31.0 -30.1	37.8 STM	STM	30.6 30.2
E	Temp #2 +30.9 -30.	37.1 STM	STM	30.5 - 30.3
M	Temp #3 (Starboard)	TML	STM	
Р	Dewpoint #1	Are .	STM (9)	
	Dewpoint #2			
3	Attack Angle (AP/DAP)	STM	STM	and the second s
Р	Slip Angle (BP/DBP)	STM	STM	
R	Differential (PQ1/PQ2/PQ3)	STM	STM	
S	Absolute (PS1/PS2)	STM	STM	, , , , , , , , , , , , , , , , , , , ,
S	Radome Transducers	Plugs Out? STM	STM	7. F. CO.
Marine M.	Cabin Transducer (Station 5)	STM	STM	Company -
	Apn-159 SN: 66 - 024	STM	STM	
F	Apn-232 SN:   699	STM	STM	
T	King Liquid Water	NIT	NIT	4
	J&W Liquid Water	STM	STM	9
L	Down PRT-5 (SST)	TML	STM	and the same of the same
V L	Side PRT-5 (CO <sup>2</sup> )	TML	MTS	
-	RAMS Data System	(3) STM	(6) STM	# DATs: /
- Car	ASDL	TML	(0) STM (1)	200 - 90 to - 90 to -
М	Exterior Walk Around	STM	TMLX	
. 1	Video (N) (L) (R) D	STM	STM	3.
S	AXBT	# on Board O	# Dropped: O	# Good —
С	ODW	# on Board : O	# Dropped :	# Good :
	FCU _A_B_C_D	STM		
	Charge Probe		E. 30	Accelerometers
U	Formvar	N/T	~ NII	#1 (2 G):
S	Field Mills D B O D	STM	(2) NII	#2 (2.5 G) :
R	Lawrence Water Collector	N/I	N/I	#3 (3 G) :
	HRD Workstation	NI	NII	#4 (3.5 G) :
-			141	1

# Please Note any Discrepencies

Item #				
1		Cloud Probe mounted Majoral pylon position Precip Probe " outboard " " DASCOBLES		
	le L	Reversed	an	
2	4	Flight Director Nost RADAR Indicator No display	m	OK
3	17532	Fligh Director Outboard Monitor has a flaky brightness nob	STM	OK
9		Gerber Liquid Water is installed and is being recorded on channels 26,27,28	STM	/
		See the voitex assignments for analog collection	* =	
5		OATA LOG		OK
6	1926	Switched to Dewpoint #2 #1 is bad. HI reading out toulunch	STM	/
7		Right Field mill is hoising than Loft? Chark Spinner + bearings —etc	TL	OŁ
В	***	SN 102 LF RT would not taken Feey in AfG		/
9	100	Dempositer # 1 is back and is reselected as Primary	STM	/
10		ASOL - % of RECCO messages sent to ASOL kick back ernor * ASDL COMM from	STM	
		ASOL II error: -31 - Comm. link timeout. Message failed to be sent and was	N.	
8	8	not recicued by ASDL. In order to send message we needed to copyring		The Control of the Co
	0 191 <sup>2</sup>	file as a 6. ED file vice" 6. EA31 then resend it to the		
		ASDL. All other messages seemed to		/
11	3300	ASOL went down hard to communications Back on line at 2340.2	STM	/
12	0026	HVPS POT on Field mill control Penel only Allows HYPS to reach 10,000 volts (.9)		OK
13		Styck dide on Cloud probe ~ #8 0+50	TL	OK

WB Form 413-50	)						20							_	
. 2 . 0)		et e	2			1 =	- ,	1 /	7-1		١.	1 4	09 28	9785	
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1927		8125			31				-2.5	1006 15	564-				<del> </del>
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200430		7834		9	49	3078	3083	10.8	10.2	00 10	3.0				<del>1</del>
201200			90	90	12		3007				6 e	M -5	m. D		<del> </del>
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003046 0053 0105 011235 012805 0150 0203 021115	252 2756 27146 2635 2708 2711 Bucc 27126	79 01 80 20 80 01 79 11 79 16 601 80 224 80 55.4	7178 178 LAK OUT 206	rear 26 6 Wb.	35 x 47 AVIA 6	3049 3-MA 3052 3138	3121 )	3, 2/61 10.7 70.20 15.1	7.6 7.6 NE 10.7	1000.3 70 9	102000 1020 1020 182 6887	5			



### 950801I N43RF Hurricane Erin HRD Landfall

Sensor or system	Number or Name
INE	2 (See note)
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altimeter	APN-159
Altitude change option	[*]
(for vertical winds)	RA ·
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2951.CON

#### Notes:

INE 2 positions were corrected periodically with good GPS positions. No corrections were made to groundspeeds.

Removed several Dewpoint #1 spikes early in the flight.

Special note. Locations 80, 81 and 82 of the Type 5 record on the Standard Tape contain vertical groundspeed, vertical airspeed and vertical wind, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Jack Parrish, Flight Director

```
TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
HRD ERIN LANDFALL
YYMMDDL FLT I.D.
950801I
HHMMSS START TIME
                 -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
185901
HHMMSS END TIME
                   999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
025900
HHMMSS TAKE OFF TIME
190900
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
* -----LOGICAL UNIT OF PRINTER (I1)
* -----DATE OF PROGRAM (MMDDY)
06093
* ----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
* ----- DEWPONT TEMPERATURE PROBE (I1) [1 OR 2]
1
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
* -----PRINTOUT RATE SECONDS (I2)
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (12)
10
                                ! FOR STANDARD TAPE OUTPUT ONLY
* ----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO3956.CON
*****************************
```

	95	0801I	H. Er	in Landfull	,DE#2
	190900	-0.1	+0,1	51.5 30.7	51,5 30.7
	201200	-0.7	-0.6 6	30.4 00.6	30.4 00.6
	205330	0,0	-0.15	37.5 10.0	35.5 9.9
	213100	+0.1	-1.5	58.8 7.4	58,8 7,4
	220900	-0,1	0.0 9	31.1 15.6	31.1 15.6
	225900	-0.5	-1.1 9	44.9 30.8	44.9 30,8
	234230	-1.3	-0.8 6	43.9 46.5	43.9 465
	003100	ールロ	-1.8 6	56.6 50.3	56.6 50.3
	0100	-2.9	-0.4	34.8 08.2	34.8 08.2
	0129	-2.0	-2.2 \$	10.5 14.8	10.5 14.8
	0150	-2.3	-2.9 8	12-5 16.3	12.5 16.3
[2]	S (dia	-3.0	-4.1	344 417	34.7 41.3

on initial climbout, TO lagged TA, and did not fully reconventil 1932Z.

IDEZ renaved.



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

Rockville, MD 20852-3019

#### OFFICE OF NOAA CORPS OPERATIONS

Aircraft Operations Center P.O. Box 6829
Tampa, Florida 33608-0829

MEMORANDUM FOR:

Dr. Hugy WILLOUGHBY, DOAR Acting Director, HAD, ADMI

FROM:

CAPT George C. Player III, NOAA

Acting Director, Aircraft Operations Center

SUBJECT:

Hazard Duty Flight

The mission flown on AOC aircraft # N43ZF on 1 August 95 has been declared hazardous. The following personnel from you laboratory participated in this mission.

Lobert Black Michael Black

For purposes of computing allowable hazard duty time, the hazard period during this mission was from 1459 local time on 1 Aug until 2259 on 1 Aug.



William R. McKenna

Wing Public Affairs

hurricane.

·It has been said with every negative there is a positive close behind.

After violent thunderstorms, do we not see a rainbow?

After struggling for justice, do we not find freedom?

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Last week, residents along the Florida coastlines watched closely the movements of hurricane Erin as she slowly inched her way across the radar screen.

For many it was a time of prayer, to secure their homes and to keep safe their families.

For others, it was a time to go to work.

The National Atmospheric Administration did not run, but rather gassed up the plane, checked the equipment and charted their course with the final destination lying within the eye of the storm. Acc flight director

According to Jack Parrish, research scientist, this is done in an attempt to solve the mysteries of the hurricane.

"Everything we do applies to the forecast problem," Parrish said. "The forecast problem is both where it is going to go and how git is going to be until it gets there. Those are the two big questions."

In order to come up with the solution, the researchers require data on the pressure, temperature. humidity and winds at the center of the storm.

With high-tech equipment set up on the perimeter of the plane recording information and sending it to the data bases inside the craft, collecting the data usually does not take much time, Parrish said.

"You want to get to the center and you want to get your reference information, and it takes all of a second or two to get that, then you just keep on going," he said.

Although the flight requires the penetration of the eye wall several times, to paint a complete picture the aircraft must venture away from the center.

With Erin, NOAA made eight penetrations and flew back and forth in 50-mile lines away from the center, Philip R. Kennedy, NOAA pilot said.

Staying within the eye researchers only see half the picture. By flying around the radius from the strength and size of the total wind tield center, information on the direction of the storm can be found, Parrish said.

However, if flying in and out of the hurricane was all that was required to complete the mission, then the mysteries would probably be solved. Unfortunately it is not quite that simple.

All the research recorded has to be compared and validated with previously recorded information from other hurricanes, as well as information from satellites and ground based radar systems, he said.

The mission with Erin was to test new Doppler radar systems set up along the coasts of Florida, he said.

"You want to be measuring the eye wall wind field," he said. "What we want to see happen is for the eye of a strong storm to come within quantitative range of that radar range. The range is between 30 to 100 miles."

He added charting Erin was very frustrating for the researchers since only part of the eye wall appeared within the radar's range located in Melbourne.

"If they get the same answer we get, as far as winds, then that ground base radar is doing the job," he said. "What we are doing is we are validating the information compiled by the Melbourne radar. If they are not getting the right answer, then we help them get the right answer."

The same goes for the satellites.

Satellites are able to record much of the information as do the ground based systems. But satellites are  Circus new the top of the topos phere, the layer in which we hampered by the Sheer's Shield (the third level of atmosphere), Parrish said. The layer of clouds continued to the sheet shield (the third level of atmosphere).	atter	2
The wind field and pressure field satellites are so far unable to calculate any of those," he said. "We know if everything works out perfectly between the satellites and the ground base radar we might not need		
know if everything works out perfectly between the satellites and the ground base radar we might not need aircraft." when the storage are close to short,		

But he does not expect this to happen any time soon.

How the information recorded from Erin fits into the big picture will not be known for a couples years, he said.

What is known is predicting the precise path of a hurricane is difficult.

"There is always a range and the accuracy falls off with the increase in a forecast period," he said. "The 12-hour forecast error for the center of the storm is probably 40 to 50 miles, not a very big spread. At 72
Around 250 370 hours it is probably 220 to 300 miles.

"The uncertainty is easy to quote. Are we getting to the uncertainty less? Only a little bit at a time."

For the past two decades, researchers have been able to reduce the mysteries of the storm by 20 percent, he said.

"It is a very gradual process that will never go to zero," he said.

But to get the needed information, researchers must take the good out of the bad, and the bad is what they are hoping to get, Parrish said.

"We want to fly a big storm, with a strong eye wall and we want to fly near one of these radars," he said.

"It is no coincidence that these radars are near population centers? The we have to woon a property coastal.

"So what do we want? We want a big storm coming in on one of these population centers. That is not a good thing to want, but to get the quantitative information to validate our research we do need that."

Kennedy added, "I don't get excited about hurricanes like scientists do. I think when they say that was a good hurricane it is a bad hurricane for everybody else.

"I don't like the idea we have hurricanes, but we have them. I am hoping that our job will sometime in the future provide a better way to predict where the hurricane is going to hit so that people can evacuate."

Because Erin had a poorly defined eye wall due to the circulation of winds and the fact very little of the storm was tracked within range of the ground based systems, Parrish does not think this will be the best study of season.

"What we are trying to do is clearly a good thing, even though it is the validation of a bad thing."

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В	26 DEG 31 MIN(N)S	LATITUDE OF VORTEX FIX +
	78 DEG 09 MIN E 00	LONGITUDE OF VORTEX FIX *
С	700 MB 2950 M	MINIMUM HEIGHT AT STANDARD LEVEL
D	N/A KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
Ε	D/A DEG D/A NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	85 DEG 75 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	360 DEG 35 NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
Н	D/A MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLA- TED FROM WITHIN 1500 FT OF SEA SURFACE
1	10,5 c/ 3055 M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	15.5 C/ 2960 M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
ĸ	17.5 c/ D/A c	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	OPEN S	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
М	C Z O	EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of major axis in tens of degrees, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8-Circular eye 8 miles in diameter. E09/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
	26 DEG 3/ MIN N S	CONFIRMATION OF FIX: Coordinates and Time •
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INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

\* CHECK SUM REQUIRED IN WESTPAC.

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F	850EG 75 KT	MAXIMUM FLIGHT	LEVEL WIND NEAR C	ENTER
G	360 DEG 35 NM	BEARING AND RAN	IGE FROM CENTER O	F MAXIMUM FLIGHT LEVEL WIND
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J	15.5 C/ 2960 M	MAXIMUM FLIGHT	LEVEL TEMP/PRESS	SURE ALTITUDE INSIDE EYE
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\* CHECK SUM REQUIRED IN WESTPAC.

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\* CHECK SUM REQUIRED IN WESTPAC.



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration Rockville, MD 20852-3019

#### OFFICE OF NOAA CORPS OPERATIONS

Aircraft Operations Center P.O. Box 6829 Tampa, Florida 33608-0829

MEMORANDUM FOR: Action

Dr. Hugy WILLOUGHB9, WOAR Acting Director, HAD, ADML

FROM:

CAPT George C. Player III, NOAA

Acting Director, Aircraft Operations Center

SUBJECT:

Hazard Duty Flight

The mission flown on AOC aircraft # N43ZF on 1 Au6usv 95 has been declared hazardous. The following personnel from you laboratory participated in this mission.

John Gamache Robert Black Michael Black

For purposes of computing allowable hazard duty time, the hazard period during this mission was from 1459 local time on 1 Aug until 2259 on 1 Aug.



DATE: 3 Aug 95	
TO : Chief, AOC Flight Operations	R
FROM : Pilot/Flight Director, Aircraft N432F BLOCKT	[ME
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PILOT/FLIGHT DIRECTOR:  APPROVED:  DISAPPROVED:	*

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el la	PILOT/FLIGHT DIRECTOR:
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TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON

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