Jankus U.S.

# U.S. NAVAL AIR STATION

## NEW YORK

## MESSAGES :

1.	A MESSAGE IS A COMMUNICATION EXPRESSED IN A VERY BRIEF FORM
	TRANSMITTED BY SPECIAL MEANS TO HASTEN DELIVERY. THE
	PROCEDURE IS DESIGNED TO PROVIDE A CONGISE AND DEFINITE
	LANGUAGE WHEREBY RADIOTELEGRAPHY COMMUNICATIONS MAY BE
	CONDUCTED ACCURATELY, RAPIDLY, AND WITH THE SECURITY
	OBTAINABLE ON RADIO CIRCUITS. THE ATTAINMENT OF THIS
	RELIABILITY DEPENDS, TO A LARGE EXTENT, UPON THE OPERATOR.

- 2. TYPES OF MESSAGES:
  - A. PLAINDRESS ONE IN WHICH THE ORIGINATOR AND ADRESSEE DESIGNATIONS ARE INDICATED EXTERNALLY OF THE TEXT. IT MUST ALWAYS INCLUDE THE FOLLOWING ELEMENTS:

(1) PRECEDENCE

- (2) DATE TIME GROUP
- B. ABBREVIATED PLAINDRESS WHERE THE REQUIREMENT FOR SPEED OF HANDLING MAY REQUIRE ABBREVIATION OF PLAINDRESS MESSAGE HEADINGS. THE FOLLOWING MAY BE OMITTED FROM THE HEADING;

(1) PRECEDENCE

(2) DATE TIME GROUP

(3) GROUP COUNT

- (4) FM AND TO ( WHEN CALL SERVES AS ADRESS )
- C. CODRESS CARRIES IN THE ENCRYPTED TEXT THE ENTIRE ADDRESS. (ORIGINATOR AND ALL ADRESSEE )
- 3. PARTS OF THE MESSAGE :
  - (A. HEADING
  - (B. TEXT
  - (C. ENDING
  - A. HEADING MAY BE FURTHER BROKEN DOWN INTO (4) PARTS.

(1) PROCEDURE

(A) CALL.....NTMY DE NSC

- (B) TRANSMISSION IDENTIFICATION.....NR\_
- (C) SPECIAL INSTRUCTIONS..... ( -T-G-F)
- (2) PREAMBLE
  - (A) PRECEDENCE PROSIGN..........P
- (3) ADDRESS
  - (A) ORIGINATORS SIGN....FM 8M38
  - (B) ACTION ADDRESSEE....-TO NSC NHZ ETC.
  - (C) INFOMATION ADDRESSEE.....INFO C2XT SNUX ETC
- (山) PREFIX
  - (A) GROUP COUNT.....GR\_\_

### **NEW YORK**

INFORMATION SHEET: OPEN AND CLOSING TRANSMISSIONS;

ANY PERSON USING R/T MUST MAKE THE NECESSARY "CALL" AND "CLOSE" EVERY TRANSMISSION WITH THE PROWORDS "OVER" OR "OUT" SO THAT OTHERS MAY KNOW -IF- AN ANSWER IS REQUIRED OR NONE IS EXPECTED.

#### COMPOSITION:

EVERY R/T MESSAGE IS COMPOSED OF THREE BASIC PARTS; 1. HEADING 2. TEXT 3. MESSAGE ENDING

1. THE HEADING WILL CONSIST OF THE FOLLOWING COMPONENTS;

A. THE CALL

- B. THE PRECEDENCE (IF ANY)
- C. THE TRANSMISSION INSTRUCTIONS (IF ANY)

D. THE DATE TIME GROUP (IF USED)

- THE ADRESS (IF NECESSARY, THAT IS, IF THE CALL DOES NOT SERVE AS THE ADRESS)
- F. THE GROUP COUNT (IF USED)
- 2. THE TEXT IS THE BODY OF THE MESSAGE AND MAY CONSIST OF PLAIN LANGUAGE, OR CIPHER GROUPS. IF THE PROWORD "ACKNOWLEDGE" IS USED, IT IS ALWAYS THE LAST WORD OF THE TEXT. THE PROWORD "BREAK" IS USED TO SEPARATE THE TEXT FROM THE HEADING AND THE MESSAGE ENDING.
- 3. THE MESSAGE ENDING CONSISTS OF THE FINAL INSTRUCTIONS, NORMALLY THE PROWORD "GVER" OR THE PROWORD "OUT".

PROWORDS: THE FOLLOWING PROWORDS ARE AUTHORIZED FOR GENERAL USE ON RADIOTELEPHONE CIRCUITS:

ACKNOWLEDGE	.USED BETWEEN THE GRIGINATOR AND THE A₽DRESSEE
	MEANS TLET ME KNOW THAT YOU HAVE RECEIVED AND
	UNBERSTAND THIS MESSAGE".
MESSAGE FOR	."I WISH TO TRANSMIT A MESSAGE TO ."
STANDBY TO WRITE	"A MESSAGE W!LL FOLLOW WHICH WILL REQUIRE A
•	PERMANENT RECORD."
THAT IS CORRECT	""YOU ARE CORRECT"
WILCO	."Your Last message received, understood, and
	WILL BE COMPLIED WITH,"
R●GER	."I HAVE RECEIVED YOUR LAST MESSAGE."
•VER	"THIS IS THE END OF MY TRANSMISSION TO YOU
,	AND AN ANSWER IS REQUIRED (EXPECTED)."
OUT	"THES IS THE END OF MY TRANSMISSION TO YOU
	AND NO INSWER IS REQUIRED OR EXPECTED."
FIGURES	"FIGURES OR NUMERALS FOLLOW"

## U.S.NAVAL AIR STATION NEW YORK

# PROWORDS (CONT'D)

GROUPS	"THE NUMBER OF GROUPS IN THE TEXT OF THIS
	MESSAGE IS INDICATED BY THE NUMBERAL(S) WHICH
•	FOLLOW IMMEDIATELY."
	."REPEAT ALL OF YOUR LAST TRANSMISSION."
BREAK	"I HEREBY INDICATE THE SEPARATION OF THE TEXT
	FROM THE OTHER PORTIONS OF THE MESSAGE."
CORRECTION	."AN ERROR HAS BEEN MADE IN THIS MESSAGE. THE
	CORRECT VERSION IS"
ALL REFORE	USED IN CONJUNCTION WHICH IS TO IDENTIFY A
ALL DEPUNE	
	PORTION OF A MESSAGE, WITH SAY AGAIN.

ALL AFTER.....USED AS INDICATED ABOVE WORD AFTER.....USED AS INDICATED ABOVE WORD BEFORE....USED AS INDICATED ABOVE

READ BACK....."REPEAT THIS ENTIRE TRANSMISSION BACK TO ME EXACTLY AS RECEIVED AFTER I HAVE GIVEN OVER."

THIS IS ONLY A PORTION OF ALL THE PROWORDS, THESE ARE THE MOST OFTEN USED. THE COMPLETE LIST OF PROWORDS AND THE RULES FOR RADIOTELEPHONE MAY BE FOUND IN ....JANAP 124....

## U.S. NAVAL AIR STATION NEW YORK

INFORMATION SHEET; RADIO TELEPHONE PROCEDURE, AND THE INTERNATIONAL MORSE CODE PRONUNCIATION.

LETTER	MORSE CODE PROPERTIES	
B.,	BRA <b>VO</b>	ADAH-DI-DI-DIT
C	CHARLIE	DAH-DI-DAH-DIT
<b>5</b>	DELTAECHO	DITE - A
F	FOXTROT	DI-DI-DAH-DIT
G	GOLF	DAH-DAH-DIT
	HOTEL	
J	JULIETT	DI-DAH-DAH-DAH
K	KILOLIMA	DAH-DI-DAH
M	MIKE	···DAH-DAH
N	. NOVEMBER	• • • DAH-DIT
0	OSCAR PAPA	BIMBAHMDAH
Q	QUEBEC	DAH-DAH-DI-DAH
	ROMEO	
	SIERRATANGO.	
U	UNIFORM	DI⊶DI→DAH
	.VICTOR	
	WHISKEYXRAY	
Υ	.YANKEE	DAH-DI-DAH-DAH
	.ZULU	DAH-DAH-DI-DIT DI-DAH-DAH-DAH
2	TOO	DI - DI - DAH - DAH - DAH
3	TREE FOWER FIFE SIX	DI-DI-DI-DAH-DAH
4 ••••••••	••FUWER ••••••••	DIDIDIDIT
6		
		DAH-DAH-DI-DI-DIT DAH-DAH-DAH-DI-DIT
9	NINER	· · · DAH-DAH-DAH-DAH-DIT
Ø	.ZERO	DAH-DAH-DAH-DAH
/ ••••••••	SLANI SIGN	DAH-DI-DI-DAH-DIT

- 1. WHEN NECESSARY TO IDENTIFY ANY LETTER OF THE ALPHABET THE STANDARD PHONETIC ALPHABET AS GIVEN ABOVE WILL BE USED.
- 2. DIFFICULT WORDS WILL BE SPELLED AND THE WORD WILL BE SPOKEN BEFORE AND AFTER SPELLING. FOR EXAMPLE ; "CATENARY" I SPELL CHARLIE ALPHA TANGO ECHO NOVEMBER ALPHA ROMEO YANKEE "CATENARY".
- 7. TO DISTINGUISH NUMBERS FROM WORDS SIMILARLY PRONOUNCED THE PROWORD "NUMERALS" OR "FIGURES" MAY BE USED PRECEDING SUCH NUMBERS WHERE NECESSARY.
- NUMBERS WILL BE TRANSMITTED DIGIT BY DIGIT, EXCEPT IN EXACT WULTIPLES OF HOUNDREDS OR THOUSANDS, AND WHEN THEY MAY BE TRANSMITTED AS SUCH.

# U.S. NAVAL AIR STATION NEW YORK

# INFORMATION SHEET; PROSIGNS

- 1. BELOW IS A LIST OF PROSIGNS WHICH ARE AUTHORIZED FOR USE ON RADIO TELEGRAPH CIRCUITS. NO OTHERS MAY BE USED. AN OVERSCORE (A LINE OVER ONE OR MORE LETTERS) INDICATE THAT THE LETTERS OVERSCORED ARE TO BE TRANSMITTED AS A SINGLE CHARACTER, THAT IS, WITHOUT PAUSE BETWEEN THE LETTERS.
- 2. LIST OF PROSIGNS:

3.

AAA AAA AB AR AS B BT C DE EEEEEEE F FM G GR(NUMERAL) GRNC EM EM EM II INFO INT J K KK M	* •	PERIOD UNKOWN STATION ALL AFTER ALL BEFORE END OF TRANSMISSION WAIT MORE TO FOLLOW LONG BREAK CORRECT FROM ERROR DO NOT ANSWER ORIGINATORS SIGN REPEAT BACK GROUP COUNT GROUPS NOT COUNTED EMERGENCY SILENCE SIGN SEPERATIVE SIGN REPEAT BACK INFORMATION ADRESSEE SIGN INTERROGATORY SIGN VERIFY WITH ORIGINATOR AND INVITATION TO TRANSMITT PARENTHESIS DEFERRED	REPEAT
MIM NR O P R T TO WA WB XE XMT Y Z	•	COMMA, NUMBER (MESSAGE NUMBER) OPERATIONAL IMMEDIATE PRIORITY RECEIVED (ALSO ROUTINE) TRANSMIT TO ACTION ADRESSEE SIGN WORD AFTER WORD BEFORE SLANT SIGN/ EXEMPTED ADDRESSEE SIGN EMERGENCY FLASH	
THE FOLLOWING Z Y O R R	18	THE PRIORITY SEQUENCE: FLASH EMERGENCY OPERATIONAL IMMEDIATE PRIORITY ROUTINE DEFERRED	

### **NEW YORK**

- "Q" AND "Z" SIGNALS-
  - FOR A COMPLETE LIST OF SIGNALS REFER TO THE ACP-131A.
  - INT BEFORE THE SIGNAL, ASKS THE QUESTION. (?)
  - THE SIGNAL ALONE IS THE REPLY, ORDER, OR ADVISE.
- QAR MAY I STOP LISTENING ON THE WATCH FREQUENCY FOR ... MINUTES:
- QCX WHAT IS YOUR FULL CALL SIGN?
- ORB HOW FAR ARE YOU APPROXIMATELY FROM MY STATION?
- QRE WHAT IS YOUR ESTIMATED TIME OF ARRIVAL AT....?
- QRK WHAT IS THE READABILITY OF MY SIGNALS? ( FROM 1 TO 5)
- QRM ARE YOU BEING INTERFERED WITH?
- QRN ARE YOU TROUBLED BY STATIC?
- QRS SHALL I SEND MORE SLOWLY? (....WPM)
- QRT SHALL | STOP SENDING?
- QRU HAVE YOU ANYTHING FOR ME?
- QRX WHEN WILL YOU CALL ME AGAIN? (HOURS)
- QRZ WHO IS CALLING ME?
- QSA WHAT IS THE STRENGTH OF MY SIGNALS? ( FROM 1 TO 5 )
- QSB ARE MY SIGNALS FADING?
- QSL CAN YOU ACKNOWLEDGE RECEIPT OF MESSAGE?
- QSV SHALL | SEND A SERIES OF V'S?
- QSY SHALL ! TRANSMIT ON ANOTHER FREQUENCY? (WHAT FREQUENCY)
- QSZ SHALL ! SEND EACH WORD MORE THAN ONCE?
- QTH WHAT IS YOUR POSITION IN LATITUDE AND LONGITUDE OR BY ANY OTHER INDICATION?
- QSO CAN YOU COMMUNICATE WITH...DIRECT OR BY RELAY?
- QSP WILL YOU RELAY TO....FREE OF CHARGE?
- QTC HOW MANY TELEGRAMS HAVE YOU TO SEND?
- QTR WHAT IS THE CORRECT TIME? ( HOURS)

### NEW YORK

"Q" AND	ft Z !!	SIGNALS	(CONT.)	١
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ZUE - YES

ZUG - NO

ZUJ - STANDBY

ZUH - UNABLE TO COMPLY

ZBM2 PLACE ON WATCH A COMPETENT OPERATOR.

ZAA - YOU ARE NOT OBSERVING PROPER CIRCUIT DISCIPLINE.

ZDG - ACCURACY OF THE FOLLOWING MESSAGE(S) IS/ARE DOUBTFUL.

ZDJ - HOW MANY GROUPS DOES YOUR MESSAGE CONTAIN? (..... GROUPS)

ZKJ2 I AM CLOSING DOWN.

ZEV - MESSAGE IS ACKNOWLEDGED.

ZFI - THERE IS NO REPLY TO MESSAGE.

ZGF - MAKE CALL SIGNS MORE DISTINCTLY.

ZOE - GIVE ME YOUR MESSAGE. I WILL DISPOSE OF IT.

INT ZOE - CAN YOU ACCEPT MESSAGE FOR.....?

ZZF - INCORRECT.

ZZG - YOU ARE CORRECT.

ZZH - TRY AGAIN.

ZZ! - ANSWER LAST QUESTION.

ZRE - ! HEAR YOU BEST ON.....KCS (OR MCS)

ZDN - REPORT DISPOSAL OF MESSAGE.

ZUB - AT....

ZXO - REQUEST YOU OBTAIN RETRANSMISSION OF MESSAGE....FROM.....

ZDO - 1 COULD NOT SEND MESSAGE, .... TO.....

ZEK - NO ANSWER IS REQUIRED.

ZZK - FOLLOWING IS ANSWER TO THE LAST QUESTION (OR QUESTION).

.ZZO3 - A JUNIOR OPERATOR IS TO CARRY OUT A STANDARD RADIOTELEGRAPHY TRANSMITTING EXERCISE,

## NEW YORK

### EMERGENCY CALLS

1. THE FOLLOWING IS A LIST OF THE VOICE AND CW DISTRESS, URGENCY AND SAFETY SIGNALS:

CALL VOICE CW

- A, DISTRESS MAYDAY MAYDAY MAYDAY SOS SOS SOS
- B. URGENCY PAN PAN PAN XXX XXX XXX
- C. SAFETY SECURITY SECURITY TIT TIT

#### 2. MEANING:

- A. DISTRESS INDICATES THAT THE STATION SENDING IS THREATENED BY A GRAVE AND IMMINENT DANGER AND REQUESTS IMMEDIATE ASSISTANCE.
- B. URGENCY INDICATES THAT THE CALLING STATION HAS A VERY URGENT MESSAGE CONCERNING THE SAFETY OF THE AIRCRAFT OR PERSONS ABOARD.
- C. SAFETY → SAFETY SIGNAL PRECEDES TRANSMISSION OF A MESSAGE CONCERNING SAFETY OF NAVIGATION OR IMPORTANT METEROLOGICAL WARNINGS.

# 3. DISTRESS MESSAGE:

AFTER YOUR INITAL CALL -

TYPE OF AIRCRAFT -- POSITION AND TIME -- HEADING ( TRUE OR MAGNETIC ) -- ALTITUDE -- NATURE OF EMERGENCY -- PILOTS INTENTION ( BAIL OUT DITCHING OR CRASH LANDING ETC) OR ASSISTANCE DESIRED ( BEARING OR FIX RADAR STEER INTERCEPTION OR ESCORT)

EXAMPLE OF CW DISTRESS MESSAGE :

- A. SOS SOS DE ABCD ABCD ABCD P2V QTH 55 MILES SE NEW YORK 1235Z QTI Ø9Ø QTJ 14Ø QAH 6ØØØFEET ENGINE FAILURE DITCHING (TWO TEN SECOND DASHES) ABCD K
- B, XXX XXX XXX H8Y DE ABCD INT QTF QBD 30 MIN ( TWO TEN SECOND DASH) ABCD K
- C. TIT TIT H8Y DE ABCD CFT 8ØØØ-9ØØØ FT QTH 3415N 722ØW K
  \*\*\* NOTE---- WHEN COMMUNICATING BY VOICE CR CW
  - CW-THE LAST FIVE NUMBERS OF THE BUNO SHOULD BE USED TO ALL STATIONS EXCEPT NAVY.
  - VOICE-WITH MILITARY STATIONS THE AIRCRAFTS NORMAL MILITARY VOICE CALL SIGN SHOULD BE USED.

### NEW YORK

## DISTRESS PROCEDURES ;

AN AIRCRAFT THREATENED BY GRAVE AND IMMINENT DANGER AND DESIRING IMMEDIATE ASSISTANCE WILL:

1. TURN ON IFF EMERGENCY EQUIPMENT.

2. TRANSMIT ON RADIO TELEGRAPH OR RADIO TELEPHONE AS FOLLOWS ON AIR/GROUND FREQUENCY IN USE AT THAT TIME, OR ONE OF THE FOLLOWING EMERGENCY FREQUENCIES:

5ØØ KC	CW	MF	(ART-13	ARC <del>-</del> 5)
8364 KC	CW	HF	(ART-13	ARR-15)
2182 KC	VOICE	MF	(ART-13	ARR-15)
121.5 MC	VOICE	VHF	(ARC-1)	
243.Ø MC	VOICE	UHF	(ARC-27)	

# CW REPORT

SOS SOS SOS DE (FOLLOWED BY CALL SIGN OF AIRCRAFT 3 TIMES) DISTRESS MESSAGE

-OR-

TWO 10-SECOND DASHES - IF TIME DOES NOT PERMIT DISTRESS MESSAGE CALL SIGN OF AIRCRAFT (ONCE)

# VOICE REPORT

MAYDAY MAYDAY
THIS IS (FOLLOWED BY CALL SIGN OF AIRCRAFT 3 TIMES)
DISTRESS MESSAGE

-OR-

TWO 10-SECOND PERIODS WITH MIKE BUTTON DEPRESSED, SAYING AHHH - IF TIME DOES NOT PERMIT DISTRESS MESSAGE.
THIS IS (FOLLOWED BY CALL SIGN OF AIRCRAFT ONCE)

# NEW YORK

### RADIO LOGS :

- 1. RADIO LOGS SHALL BE KEPT BY THE OPERATOR OF EVERY CIRCUIT, SHIP, PLANE OR SHORE RADIO STATION. THE OPERATOR SHALL MAKE ENTRY OF EACH AND EVERY TRANSMISSION HE MAKES AND EVERY TRANSMISSION HEARD OVER THE CIRCUIT HE IS GUARDING.
- 2. ALL RADIO TRAFFIC RECEIVED SHALL BE LOGGED EVEN THOUGH NOT DIRECTLY CONCERNED (THIS IS FOR REFERENCE). LOG IN ITS ENTIRETY, ANY MESSAGE SENT OF RECEIVED, CONCERNING ANY STATION WITHIN THE CIRCUIT. ALL MESSAGES RECEIVED WHICH DO NOT CONCERN STATIONS WITHIN THE CIRCUIT WILL USUALLY BE LOGGED BY HEADING ONLY.
- 3. RADIO LOGS ENTERIES SHALL BE MADE NOT MORE THAN (5) FIVE MINUTES APART, IF NO SIGNALS ARE RECEIVED, ENTER A NO SIGNALS IN THE LOG.
  - A. IN THE AIRCRAFT, THE RADIO OPERATOR CAN KEEP A MODIFIED RADIO LOG. WHICH IS, HE WILL LOG ALL INCOMMING AND ALL OUTGOING MESSAGES. HE WILL ALSO LOG ALL MESSAGE HEADING: HE HEARS BUT HE DOES NOT HAVE TO LOG A ENTRY EVERY (5) MINUTES. THERE ARE TIMES WHEN HE WILL HAVE TO BE OFF THE CIRCUIT, ON THE ICS, OR ON UHF-VHF ETC.
- 4. UPON ASSUMING, OR RELIEVING A RADIO CIRCUIT WATCH, THE FIRST SUBSEQUENT LOG ENTRY SHALL BE A REPORT SIGNED BY THE NEW OPERATOR AS TO THE OPERATIONAL STATUS OF THE EQUIPMENT TO INCLUDE FREQUENCY, POWER OUTPUT, ETC. .
- 5. ALL CONTACT LOSSES OR FAILURES SHALL BE LOGGED. ALL MALFUNCTIONS OF THE EQUIPMENT SHALL ALSO BE LOGGED.
- 6. UPON SECUREING THE CIRCUIT THE RADIO OPERATOR ON WATCH WILL LOG THAT ENTO THE LOG AND SIGN IT.

#### NEW YORK

INFOMATION SHEET: TIME ZONES:

THERE ARE (24) TWENTY-FOUR TIME ZONES IN THE WORLD. EASH ZONE IS A BELT, (15) FIFTHTEEN DEGREES WIDE, EXTENDING FROM THE NORTH POLE TO THE SOUTH POLE. AS YOU TRAVEL ARGUND THE WORLD, IN A EASTERLY OR A WESTERLY DIRECTION, YOU TRAVEL ACROSS (24) TWENTY-FOUR TIME ZONES.

GREENWICH, ENGLAND -IS THE REFERENCE POINT WHERE THE TIME ZONES BEGIN. IT IS THE CENTER OF THE TIME ZONE "ZERO". THE ZONE ITSELF EXTENDS (7%1/2) SEVEN AND ONE HALF DEGREES EAST AND WEST OF THIS CITY. THROUGHOUT THE WORLD, "GREENWICH MEAN TIME" IS USED AS A BASIC REFERENCE.

TO DETERMINE THE TIME IN GREENWICH, ADD THE NUMBER OF THE ZONE YOU ARE IN TO THE LOCAL TIME, AND YOU WILL HAVE "GMT". IN NEW YORK WE ARE IN ZONE (5) FIVE PLUS.

ZONES WESTWARD FROM GREENWICH ARE PLUS ZONES.
ZONES EASTWARD FROM GREENWICH ARE MINUS ZONES.

IF YOU COUNT THE ZONES EAST OR WEST YOU WILL FIND THAT THEY MEET AT THE (180) ONE HOUNDRED AND EIGHTY TH MERIDIAN, IN THE PACIFIC. THE MEETING IS AT THE (12) TWEVE TH ZONE, WHICH IS DIVIDED INTO A PLUS AND A MINUS. THIS LINE IS THE INTERNATIONAL DATE LINE. FOR HERE IT IS THAT THE WORLD-WIDE DAY ENDS OR BEGINS, CAUSING YOU TO EITHER LOSE A DAY OR TO GAIN A DAY, DEPENDING ON THE DIRECTION YOU ARE TRAVELING.

# SOME OF THE UNITED STATES TIME ZONES ARE;

67&1/2 W	TO	82&1/2 W	PLUS5	"R" EASTERN STANDARD TIME
82 <b>%1/</b> 2 W	TO	97 <b>&amp;</b> 1/2 W	PLUS6	"S" CENTRAL STANDARD TIME
97&1/2 W	TØ	112&1/2 W	PLUS7	"T" MOUNTAIN STANDARD TIME
112&1/2 W	T0	127&1/2 W	PLUS8	"U" PACIFIC STANDARD TIME

#### NEW YORK

NATIONAL BUREAU OF STANDARDS TIME CHECK:

TO RECEIVE THE CORRECT TIME, AND PROPAGATION FORCAST.

WWV		₩₩VH	CHU (CANADA)
2.5	MC	5 MC	333Ø KC
5	MC	1Ø MC	7335 KC
	MC	15 MC	1467ø kc
<b>1</b> 5	MC	-	
2Ø	MC		
25	MC		

A VOICE ANNOUNCEMENT OF AMERICAN EASTERN STANDARD TIME IS GIVEN EACH (5) FIVE MINUTES FROM STATION WWV. SECONDS PULSE (NO PULSE IS TRANSMITTED AT THE BEGINING OF THE LAST SECONDS OF EACH MINUTE)

TWO STANDARD AUDIO FREQUENCIES, HAD AND 600 CYCLES PER SECOND, ARE BROADCAST ON ALL RADIO CARRIER FREQUENCIES. THE AUDIO FREQUENCIES ARE GIVEN ALTERNATELY, STARTING WITH 600 CYCLES ON THE HOUR FOR (3) THREE MINUTES, INTERRUPTED (2) TWO MINUTES, FOLLOWED BY HAD CYCLES FOR (3) THREE MINUTES, AND INTERRUPTED (2) TWO MINUTES. EACH (10) TEN MINUTE PEROID IS THE SAME.

GREENWICH MEAN TIME IS ANNOUNCED IN CODE EACH (5) FIVE MINUTES STARTING AT ØØØØ AT MIDNIGHT.

THE ENTIRE BROADCAST OF WWV IS INTERRUPTED FOR (4) FOUR MINUTES AT (45) FORTY-FIVE MINUTES, PLUS  $(\emptyset$  TO 15) THE FIRST FIFTHTEEN SECONDS AFTER EACH HOUR.

NORTH ATLANTIC RADIO WARNING SERVICE FORECASTS ARE BROADCAST ON WWV AT 19.5 AND 49.5 MINUTES PAST EACH HOUR AND REPEATED (6) SIX OR (8) EIGHT TIMES. THE FORECAST IS BROADCASTED AS A LETTER AND A DIGIT. THE LETTER IDENTIFIES CONDITIONS AT THE TIME OF USSUE, THE NUMBER IS THE FORECAST FOR THE FOLLOWING (6) SIX HOUR PEROID IN THE NORTH ATLANTIC.

TIN THE MONTH	I AILANIIO.	
LETTER	DIGIT	PROPAGATION CONDITION
W	1	USLESS
W	2	VERY POOR
W.	3	POOR
W	4	POOR TO FAIR
U	5	FAIR
N	6	FAIR TO GOOD
N .	7	GOOD
N	8	VERY GOOD
N	9	EXCELLENT

### NEW YORK

NATIONAL BUREAU OF STANDARDS (CONT):

THE ANNOUNCEMENTS IDENTIFIED BY " AG1 " ON WWV AT (4) FOUR AND (34) THIRTY-FOUR MINUTES PAST THE HOUR ARE FOR THE STATIONS THROUGHOUT THE WORLD COOPERATING IN THE INTERNATIONAL GEOPHYSICAL YEAR. THEY INCLUDE/INDICATE A STATE OF ALERT OR EXISTANCE OF A SPECIAL WORLD INTERVAL DURING WHICH OBSERVATIONAL PROGRAMS WILL BE SPEEDED UP.

OTHER ATLANTIC STATIONS BROADCASTING TIME SIGNALS ( NAVY )

TIME		ø2øøz	LOCATED WASHINGTON,	D C		FREQUEN	CIES 587ø 9425 13575
					1100	17050.4	5018 9429 19979 5148.5 11888
Ø455	ТО	ø5øø <b>z</b>	BALBOA, C.Z.	•	NBA	147.85	5448.5 11Ø8Ø
Ø555	ТО	ø6øøz	WASHINGTON,	D.C.	NSS	SAME AS	ABOVE(NSS FREQ.)
1155	ТО	12ØØZ	WASHINGTON,	D.C.	NSS	SAME AS	ABOVE
1355	ТО	14øøz	WASHINGTON,	D • C •	NSS	SAME AS	ABOVE
1755	ТО	18øøz	WASHINGTON,	D.C.	NSS	SAME AS	ABOVE
1955	ТО	2ØØØZ	WASHINGTON,	D.C.	NSS	SAME AS	ABO <b>V</b> E
2355	ТО	24øø	WASHINGTON,	D.C.	NSS	SAME AS	ABOVE

THE MAJORITY OF RADIO TIME SIGNALS ARE TRANSMITTED AUTOMATICALLY, BEING CONTROLLED BY THE STANDARD CLOCK OF AN ASTRONOMICAL OBSERVATORY. ABSOLUTE RELIANCE MAY BE HAD IN THESE SIGNALS, AND THEY SHOULD BE CORRECT TO Ø.Ø5 OF A SECOND.