

ST. LUCIE COUNTY, FL AMATEUR RADIO EMERGENCY SERVICE (ARES®) EMERGENCY COMMUNICATIONS PLAN

EFFECTIVE JANUARY 1, 2009

Ted Huf W4ZE
ARES® Emergency Coordinator
St. Lucie County, FL

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FORWARD

The Amateur Radio Emergency Service (ARES®) consists of licensed amateurs who have voluntarily registered their qualifications and equipment for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible for membership in the ARES®. The only qualification, other than possession of an Amateur Radio license, is a sincere desire to serve. Because ARES® is an amateur service, only amateurs are eligible for membership. The possession of emergency powered equipment is desirable, but is not a requirement for membership.

Part 97.1 of the Federal Communication Commissions (FCC) rules and regulations are designed to provide an amateur radio service having a fundamental purpose as expressed in the following:

“Recognition and enhancement of the value of the amateur service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications.”

This is an essential element of the "public interest, convenience or necessity" doctrine embodied in the Communications Act of 1934. With this in mind, the American Radio Relay League (ARRL), a private corporation, makes emergency communications an objective for its Field Organization, using Amateur Radio Emergency Service (ARES®) as its vehicle for accomplishing this task.

/s/ Ted A Huf
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ARES® Emergency Coordinator
St. Lucie County, Florida

- 1) MISSION STATEMENT
 - a) The mission of the St Lucie County ARES® (Amateur Radio Emergency Service), here after SLC ARES® is to provide emergency communication for its served agencies on amateur radio frequencies with FCC licensed operators who are well trained and efficient in emergency communications.

- 2) PURPOSE
 - a) This plan provides formal guidelines for the SLC ARES®. It describes an organization within which county, district, section and statewide amateur radio units may function with maximum effectiveness and minimum confusion. It is intended to promote uniform procedures among local, district, section and state amateur radio units, their officials and their operators.
 - b) This plan provides the served agencies with an understanding of how SLC ARES® will interface with them to provide a high level of support and assistance.
 - c) This plan will provide guidelines for mutual assistance with other ARES® groups, counties, or other served agencies when requested.

- 3) SERVING AGENCIES
 - a) SLC ARES® exists for the purpose of providing supplemental communications for government and private organizations involved in emergency and disaster response and mitigation. In St. Lucie County.
 - b) When an agency asks SLC ARES® for communications assistance, it gets the full benefit of the entire ARES® organization, including its nets, repeaters, mobiles and emergency power sources, as well as operator's personally-owned radio equipment.

- 4) SERVED AGENCIES
 - a) St. Lucie County, Department of Public Safety, Division of Emergency Management (SLC DEM)

- 5) ARES® ORGANIZATION
 - a) NATIONAL EMERGENCY ORGANIZATION is at ARRL Headquarters under the supervision of the ARRL Field Services Manager, who is responsible for advising all ARES® officials regarding their problems, maintaining contact with federal government and other national officials concerned with amateur emergency communications potential, and in general with carrying out the League's policies regarding emergency communications.
 - b) SECTION LEVEL: The Southern Florida Section is lead by the Section Manager (SM) who appoints a Section Emergency Coordinator (SEC), District Emergency Coordinator (DEC) and Local Emergency Coordinators (EC).

- c) COUNTY LEVEL: SLC ARES® is lead by the Emergency Coordinator (EC) who is appointed by the Section Manager. The EC may appoint Assistant Emergency Coordinators (AEC).
 - d) STATE OF FLORIDA: SLC ARES® falls under the requirements of the Florida Division of Emergency Management and the State Emergency Response Team (FLSERT)
- 6) SLC ARES® ORGANIZATION
- a) EMERGENCY COORDINATOR: Ted Huf, W4ZE
 - i) Promote and enhance the activities of Amateur Radio Emergency Service (ARES®) for the benefit of the public as a voluntary, non-commercial communications service.
 - ii) Establish an emergency communications plan.
 - iii) Establish a viable working relationship with SLC DEM and other federal, state, city governmental and private agencies in the ARES® jurisdictional area which might need the services of ARES® in emergencies.
 - iv) Establish local communications networks run on a regular basis and periodic testing of those networks by realistic drills.
 - v) Establish an emergency traffic plan. Establishment of an operational liaison with local and section nets
 - b) AEC FOR ADMINISTRATION: Peter Amar, KD4SPW
 - i) Maintain accurate records of names, address, telephone number and assigned equipment owned by St Lucie County or SLC ARES® membership.
 - ii) Perform the duties of Net Manager of the Emergency Nets and Training Nets. Assign net control stations (NCS). Compile monthly net reports for the EC and Section Traffic Manager (STM).
 - iii) Maintain the Emergency Telephone Tree of the membership.
 - c) AEC FOR SPECIAL ACTIVITIES: Erin Simmons KG4YQK
 - i) Recruitment of new members.
 - ii) Conduct and coordinate Emcomm and FEMA training. Keep records of member training.
 - iii) Be responsible for Public Relations for the general public and to the St. Lucie County PIO.
 - iv) Coordinate special activities for non-governmental organizations in which the SLC ARES® may participate.
 - d) AEC FOR LOCAL GOVERNMENT Greg Bunting KB4VVE
 - i) Represent the SLC ARES® before the SLC DEM.
 - ii) Assist in the development of operating procedures unique to the SLC EOC.
 - e) AEC FOR DATA COMMUNICATIONS: Wayne Burkett, Sr. KA1VRF
 - i) Designs and maintains the data communications infrastructure including Packet Radio, Winlink 2000, APRS and computers for SLC ARES®.
 - f) SKYWARN® COORDINATOR: Wayne Burkett, Sr. KA1VRF

- i) Coordinate Skywarn® operations with the National Weather Service in Melbourne and/or other appropriate local authorities
 - ii) Coordination of training and education of the local Skywarn® Spotter Volunteers as required by the National Weather Service. In non local emergency severe weather incidents, the Skywarn® Coordinator will activate the Treasure Coast Skywarn® Net as directed by the National Weather Service in Melbourne.
 - iii) If there is a local emergency where the SLC ARES® group is activated, the SLC EC may request that the Skywarn® net be activated to gather and provide weather related information as requested by the SLC DEM.

- 7) MEMBERSHIP AND TRAINING REQUIREMENTS
 - a) For membership in SLC ARES® only a valid Amateur License issued by the FCC is required.
 - b) SLC ARES® leadership will conduct training on a regular basis in conjunction with regular meetings, special drills and regular nets.
 - c) The FLSERT imposes additional requirements for continued membership depending on the members' deployment. SLC ARES® subscribes to these requirements and will conduct or coordinate appropriate training to fulfill this requirement.
 - i) Operators that will be deployed locally only or operating at home stations: ARRL EC-001 Level 1, NIMS IS 100 and NIMS IS 700.
 - ii) Operators likely to be deployed away from their County, ARRL or ARES® Officials at the local level (AEC, EC, RACES Officer), Local EOC Station Operators or Liaisons: The above plus: ARRL EC-002 Level 2 and NIMS IS 200.
 - d) SLC DEM issues St. Lucie County identification cards to SLC ARES® members. This card is required for unescorted access to the EOC and must be carried when deployed at assigned locations within the county. Also see 15(e).

- 8) ACTIVATION
 - a) Members will self activate in standby mode and monitor the designated frequencies and nets if they from any reliable source learn of a reason to activate. Reasons for standby activation are such as; a hurricane watch issued by the National Hurricane Center, other weather watch or warning such as tornado or severe weather, Nuclear Power Plant emergency or drill.
 - b) When requested by the SLC DEM for any reason to the SLC ARES® EC or AEC. The SLC ARES® leadership will activate the members using amateur radio, telephone, pages and e-mail, which every method is successful.
 - c) When requested by the SFL Section Emergency Coordinator (SEC).

- 9) EMERGENCY OPERATION

- a) VHF/UHF nets will be activated as directed nets under the control of a net control station (NCS).
 - i) The linked repeaters on 147.240 tone 107.2 and 147.015 tone 107.2 are to serve as the main repeaters for manned location, mobile and portable stations.
 - ii) The linked repeaters on 443.475 and 444.600 tone 107.2 are for tactical use
 - iii) In case of a failure of the above repeaters or traffic overload, repeaters owned by the Ft. Pierce Amateur Radio Club (FPARC) W4AKH on 147.345 tone 107.2 for the main repeater and W4AKH on 444.800 tone 107.2 for tactical use.
 - iv) Should all repeater operations fail; simplex operation on 147.240, 147.015, and 147.345 will be use.
 - v) The SLC EOC station W4SLC will be manned and may be NCS.
 - b) The EOC and/or Official Emergency Stations (OES) will monitor and operate on the SFL ARES® net 3.940 MHz. or other frequencies and nets that may be designated during the incident as well as the above VHF/UHF nets.
 - c) Mobile units may be activated and will be deployed as needed.
 - d) SLC ARES® is endeavoring to install a Winlink 2000 e-mail system that will allow e-mail be sent to and from the SLC EOC and manned locations on VHF/UHF packet radio and to the internet via an internet connection or on HF should the internet be lost. It is the goal to have this system implemented prior to the 2009 hurricane season. Operation of this system will be outlined in a later release of this plan.
 - e) Tactical call signs may be used at the direction of the EC or NCS. Amateur operators only need to identify with their FCC-assigned call sign at the end of a transmission when they do not expect to transmit again within ten minutes and at the end of their shift assignment. (Ref. FCC part 97.119).
 - f) Designated locations will be manned by the assigned members when directed.
 - g) Assignments are outlined in the SLC ARES® Roster that is under separate cover.
- 10) HURRICANE SPECIAL PLANS
- a) PRE-STORM
 - i) Monitor radio and television daily for tropical weather updates.
 - ii) When request by SLC DEM, EC, or AEC, the SLC ARES® telephone tree and the Emergency Net will be activated. All members are to check in to the net as soon as possible and NCS will report to the EC, AEC and Leadership Board of membership status.
 - iii) When directed to open EOC, emergency shelters and agencies by SLC DEM, the communicators will:
 - (1) Secure their home and personal property.
 - (2) Pick up shelter equipment (See Appendix 4)

- (3) Report to EOC, shelter or agencies that they are assigned.
- (4) Report to the shelter manager, EOC manager, or Agency Manager when you arrive. Set up the radio equipment and conduct a radio test with NCS. Arrange the writing materials so they are at hand when needed, and inform the shelter manager, EOC manager or agency manager that you are set up and operational. Maintain the detailed log in Appendix 3.

iv) DURING THE HURRICANE

- (1) The shelter manager, incident commander or designee is responsible for all formal messages from the hurricane shelter or agency. The SLC DEM or EOC agency representative will be responsible for all the messages from the EOC. Have the message originators sign the message form before transmission.
- (2) Messages received must be written on the message form and hand delivered to the addressee. The operator must retain a copy.
- (3) Stay inside and keep safe.
- (4) Maintain constant communications with the EOC to the best of your ability.

v) AFTER THE HURRICANE

- (1) The condition and status of the shelter will be checked by the appropriate officials and surveyed for power, telephone line damages, building structural damage and others as the need arises.
- (2) Once the emergency has passed and the shelter incident commander or manager may notified you that the shelter residents can be released, SLC ARES® members will check with the NCS and obtain permission to secure their station. Keep ALL messages and your logs, and turn them in to the EC or AEC as soon as possible.
- (3) The EC will create an after action report and submit it to the SLC DEM in a timely manner.
- (4) All participants should be prepared to critique the incident at the next regular or special meeting of the SLC ARES®. Results of said critique will be appended to the 'After Action' report.

11) RECORD KEEPING

- a) All operators are to maintain copies of all written message that they receive or send including the person's name, position and date/time that message was originated or delivered. After the incident, these records and copies of message are to be given to the EC.
- b) A log will be kept at each manned location of radio communications. The log is to show operators on duty and there times in/out and total time on duty, communications with other net stations, and any significant events. After the incident, these logs are to be given to the EC. The log form is in Appendix 3.

12) MESSAGES

- a) Tactical messages are defined as; spoke instructions, consultation or net check in where no third party communications occurs.
- b) Third party messages are defined as; messages originated by someone other than the operator for relay to another person by radio. All third party messages must be written on the ARRL message form FSD-3 or FEMA ICS-213 message form, which ever is designated by the served agency, and retained by the operator. FSD-3 is included in the Appendix 1 and ICS-213 is included in Appendix 2.
- c) Under Federal regulations, the contents of any messages handled by SLC ARES® are not to divulged to any unauthorized persons.

13) MEETINGS, NETS, TEST AND DRILLS

- a) The SLC ARES® meets each month on the third Wednesday of each month at 7:00 PM at the SLC EOC or other locations as may be designated.
- b) The SLC ARES® net meets on the first Wednesday of each month at 8:00 PM on the 147.240 and 147.015 repeaters.
- c) The SLC ARES® will conduct an annual test of its capabilities in conjunction with the National Simulated Emergency Test (SET) in October or at other times designated by the EC.
- d) Other tests and drills may be conducted at the request of SLC DEM, the State of Florida, or ARRL Southern Florida Section.

14) SHELTERS & FACILITIES:

- a) The following locations have been designated by SLC DEM as locations to be manned by SLC ARES® for 2009. This list may be modified by SLC DEM from time to time as it requires.
 - i) St Lucie County EOC – Midway Road or Rock Road
 - ii) Havert L. Fenn Center – Special Needs Shelter
 - iii) Lawnwood Hospital – Ft Pierce
 - iv) St Lucie Medical Center Hospital – Port St Lucie
 - v) Port St Lucie EOC
 - vi) ESF-8 Forward Operation Center – Milner Rd. Ft Pierce
 - vii) Savannahs Club House – Port St Lucie



15) MUTUAL ASSISTANCE

- a) The SLC ARES® may be called on to provide mutual assistance to other ARES® groups, counties, agencies or states in the event of a wide scale disaster.
- b) Requests for mutual assistance are only valid if received by the SLC ARES® EC from the SFL ARES® Section Emergency Coordinator (SEC).
- c) The SLC ARES® EC will make a determination if such aid can be provided only after consultation with its served agencies (SLC DEM).
- d) If a SLC ARES® member is deployed away from his St. Lucie County, they must be registered in the state database and have a tracking number

in order to receive coverage by the State of Florida liability insurance and workman compensation and reimbursement of expenses. This registration will be done by the EC through the Northern Florida ARRL Section Manager or his designee.

- e) State (FLSERT) or DOD identification cards may also be required to enter a disaster area.
- f) No member of SLC ARES® will undertake on his own to provide assistance and travel to another location without the expressed authorization of the SLC ARES® EC.

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM

		THE AMERICAN RADIO RELAY LEAGUE RADIOGRAM Via AMATEUR RADIO					
NUMBER	PRECEDENCE	HX	STATION OF ORIGIN	CHECK	PLACE OF ORIGIN	TIME	DATE
				0			
To:							
THIS RADIO MESSAGE WAS RECEIVED AT: AMATEUR STATION: W4ZE DATE: NAME: TED HUF STREET ADDRESS: 2041 SW IMPERIAL ST CITY, STATE, ZIP: PORT ST LUCIE, FL 34987 PHONE 772-785-9908							
TELEPHONE NUMBER:							
Sig:							
FROM		TIME	DATE	TO		TIME	DATE
REC'D				SENT			

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM
INSTRUCTIONS

RADIOGRAM COMPONENTS

Number: Your message number

Precedence: "R" for ROUTINE unless it is an emergency! Routine, Health & Welfare, Priority or **EMERGENCY**

Handling Instruction HX(s): (*Most commonly used)

A = Collect landline delivery authorized by addressee within X miles (i.e., A25 - If no number, authorization is unlimited).

B = Cancel message if not delivered within X hours of filing time; service originating station (i.e., B4).

***C** = Report date and time of delivery (TOD) to originating station.

D = Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered report date, time and method of delivery.

E = Delivering station get reply from addresses, originate message back.

F = Hold delivery until....(date). (i.e. F5 holds until the "5th")

***G** = Delivery by mail or landline toll call not required. If expense involved, cancel message and service originating station.

Originating Station: Ham who formats & submits it to NTS.

Check: Word count for message body. If ARL text is used, precede count with ARL (i.e., ARL22).

Place of Origin: Where message originates.

Time Filed:

Time Filed

The date/time in local time

To: Put name and amateur call sign (if applicable); Street address; City; State (2-letter abbrev) & ZIP; Telephone including area code. ZIP is required for NTS messages sent digitally via Packet, etc.

Body: Text goes here, maximum 5 words per line and 25 words total. A telephone number with area code counts as 3 words (707 555 1212). ARL numbered texts are spelled out (i.e., ARL FORTY SIX). "73" is written as 73, counts as one word.

Signature: This is the signature of the person who wrote the message, may differ from the Originator. If a ham operator, include name and call sign. If not a ham, include name and phone number (including area code).

REC'D: Operator call sign message was rec'd from, time and date.

SENT: Operator call sign sent to, time and date. If receiver is last stop and delivers the message, note to whom delivered, how, and time and date.

:

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM
INSTRUCTIONS

FSD-3 Relief Emergency - Routine Messages
Recommended Precedences

The letters ARL are inserted in the preamble in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals and text. Example: NR 1 R W1AW ARL 5 NEWINGTON CONN. DEC 25 DONALD R. SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 73-3968 BT ARL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *The ARRL Operating Manual*, published by ARRL, or the *NTS Methods and Practices Guidelines*, www.arrl.org/FandES/field/nts-mpg/.

Group One—For Possible “Relief Emergency” Use

- | | |
|--------|--|
| ONE | Everyone safe here. Please don't worry. |
| TWO | Coming home as soon as possible. |
| THREE | Am in _____ hospital. Receiving excellent care and recovering fine. |
| FOUR | Only slight property damage here. Do not be concerned about disaster reports. |
| FIVE | Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated. |
| SIX | Will contact you as soon as possible. |
| SEVEN | Please reply by Amateur Radio through the amateur delivering this message. This is a free public service. |
| EIGHT | Need additional _____ mobile or portable equipment for immediate emergency use. |
| NINE | Additional _____ radio operators needed to assist with emergency at this location. |
| TEN | Please contact _____. Advise to standby and provide further emergency information, instructions or assistance. |
| ELEVEN | Establish Amateur Radio emergency communications with _____ on _____ MHz. |

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM
INSTRUCTIONS

- TWELVE Anxious to hear from you. No word in some time. Please contact me as soon as possible.
- THIRTEEN Medical emergency situation exists here.
- FOURTEEN Situation here becoming critical. Losses and damage from _____ increasing.
- FIFTEEN Please advise your condition and what help is needed.
- SIXTEEN Property damage very severe in this area.
- SEVENTEEN REACT communications services also available. Establish REACT communication with _____ on channel _____.
- EIGHTEEN Please contact me as soon as possible at _____.
- NINETEEN Request health and welfare report on _____. (State name, address and telephone number.)
- TWENTY Temporarily stranded. Will need some assistance. Please contact me at _____.
- TWENTY ONE Search and Rescue assistance is needed by local authorities here. Advise availability.
- TWENTY TWO Need accurate information on the extent and type of conditions now existing at your location. Please furnish this information and reply without delay.
- TWENTY THREE Report at once the accessibility and best way to reach your location.
- TWENTY FOUR Evacuation of residents from this area urgently needed. Advise plans for help.
- TWENTY FIVE Furnish as soon as possible the weather conditions at your location.
- TWENTY SIX Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources must carry the signature of the originating official.

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM
INSTRUCTIONS

Group Two—Routine Messages

- FORTY SIX Greetings on your birthday and best wishes for many more to come.
- FORTY SEVEN Reference your message number _____ to _____ delivered on _____ at _____ UTC.
- FIFTY Greetings by Amateur Radio.
- FIFTY ONE Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators at _____. Am having a wonderful time.
- FIFTY TWO Really enjoyed being with you. Looking forward to getting together again.
- FIFTY THREE Received your _____. It's appreciated; many thanks.
- FIFTY FOUR Many thanks for your good wishes.
- FIFTY FIVE Good news is always welcome. Very delighted to hear about yours.
- FIFTY SIX Congratulations on your _____, a most worthy and deserved achievement.
- FIFTY SEVEN Wish we could be together.
- FIFTY EIGHT Have a wonderful time. Let us know when you return.
- FIFTY NINE Congratulations on the new arrival. Hope mother and child are well.
- *SIXTY Wishing you the best of everything on _____.
- SIXTY ONE Wishing you a very Merry Christmas and a Happy New Year.
- *SIXTY TWO Greetings and best wishes to you for a pleasant _____ holiday season.
- SIXTY THREE Victory or defeat, our best wishes are with you. Hope you win.
- SIXTY FOUR Arrived safely at _____.
- SIXTY FIVE Arriving _____ on _____. Please arrange to meet me there.

APPENDIX 1
FSD-3 RADIOGRAM MESSAGE FORM
INSTRUCTIONS

- SIXTY SIX DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
- SIXTY SEVEN Your message number _____ undeliverable because of _____. Please advise.
- SIXTY EIGHT Sorry to hear you are ill. Best wishes for a speedy recovery.
- SIXTY NINE Welcome to the _____. We are glad to have you with us and hope you will enjoy the fun and fellowship of the organization.

* Can be used for all holidays.

ARRL Recommended Precedences

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

EMERGENCY--Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be very rare. On CW/RTTY, this designation will always be spelled out. When in doubt, do not use it.

PRIORITY--Use abbreviation P on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the utmost urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE--This classification, abbreviated as W on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergencies and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE--Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (R on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

Note--the precedence always follows the message number. For example, a message number may be 207R on CW and "Two Zero Seven Routine" on phone.

APPENDIX 4 SHELTER EQUIPMENT AND PERSONAL GEAR CHECKLIST

The following materials are a recommendation of items you will need in a shelter during the emergency period.

1. County issued I.D. Card
2. Copy of your FCC amateur radio license
3. VHF/UHF radio
4. Headphones (recommended)
5. Emergency antenna
6. Flashlight and extra batteries
7. Spare fuses
8. Patch cords
9. SWR meter
10. Extra coax
11. Writing gear (pens/pencils, paper, erasers)
12. Message forms
13. Tool kit (include a soldering iron and a VOM)
14. Automotive type storage battery with proper connectors and fused to operate radio
15. AM/FM broadcast radio

Personal gear recommended bringing along with you to the shelter in addition to the radio equipment.

1. Cooler with water and food for 3 days
2. Clothes for 3 days
3. Personal prescription drugs (in the original bottle or container), aspirin, throat lozenges etc.
4. Foul weather gear
5. Mess kit
6. Personal first aid kit
7. Sleeping bag and a pillow
8. Toilet articles
9. Mechanical or battery operated alarm clock
10. Extra prescription glasses

APPENDIX 5

TROPICAL WEATHER INFORMATION FORM

SYSTEM NAME: _____ **TIME:** _____ **DATE:** _____

ADVISORY # _____

CURRENT WARNING: _____

CENTER OF CIRCULATION:

LATITUDE: _____

LONGITUDE: _____

OR ABOUT _____ **MILES** _____ **(DIRECTION) FROM** _____

OR ABOUT _____ **MILES** _____ **(DIRECTION) FROM** _____

MOVEMENT IS DIRECTION: _____ **SPEED:** _____

MAXIMUM SUSTAINED WINDS: _____ **GUSTS:** _____

TROPICAL FORCE WINDS EXTEND OUT _____ **MILES FROM TH CENTER**

HURRICANE FORCE WINDS EXTEND OUT _____ **MILES FROM THE CENTER**

ESTIMATED CENTRAL PRESSURE IS: _____ **MILLIBARS** _____ **INCHES**

NEXT ADVISORY WILL BE AT: _____

ADDITIONAL COMMENTS: _____

