

EMWIN

POR: DENYSE COLÓN LUGO

AUXILIAR DE INVESTIGACIONES

RED SÍSMICA DE PUERTO RICO



| INTRODUCCIÓN: EMWIN

2

EMWIN **E**mergency **M**anagers **W**eather **I**nformation **N**etwork

Sistema que le permite a los usuarios a través de una computadora obtener información sobre el clima y avisos sobre desastres naturales como: huracanes, tsunamis, inundaciones, terremotos, etc.

Se puede obtener la transmisión de data mediante internet, radio y satélite (frecuencia L) directamente desde el National Weather Service (NWS).

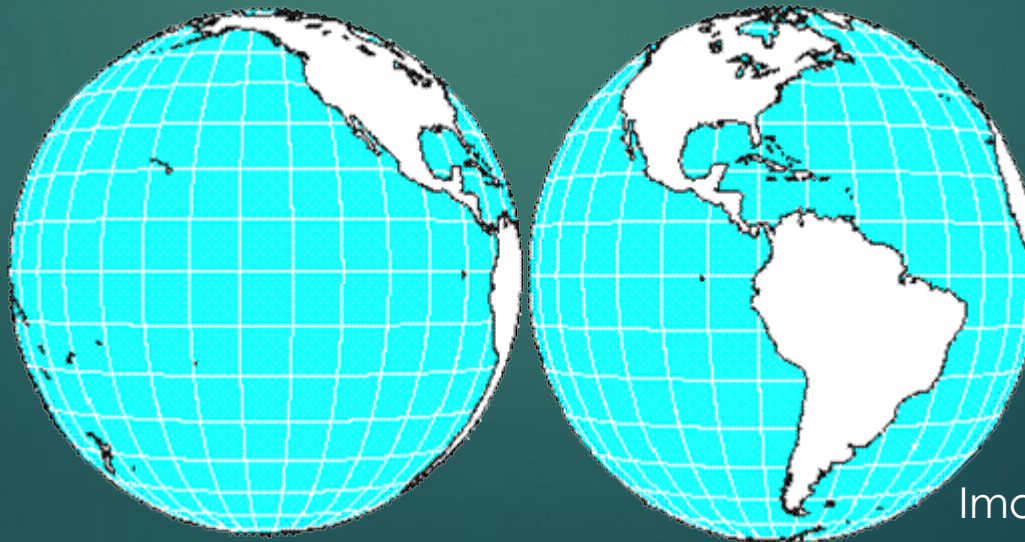
En caso de que las comunicaciones se inhabiliten entre agencias, sirve como fuente de información continua si se utiliza el satélite.

| VENTAJAS

- ▶ Funciona 24/7
- ▶ La banda L (frecuencia) es a prueba del clima.
- ▶ El equipo y el software tienen un bajo costo.
- ▶ No hay costo de suscripción o cuota.

Rosario Alfaro
NOAA/NWS

GOES 15- Oeste

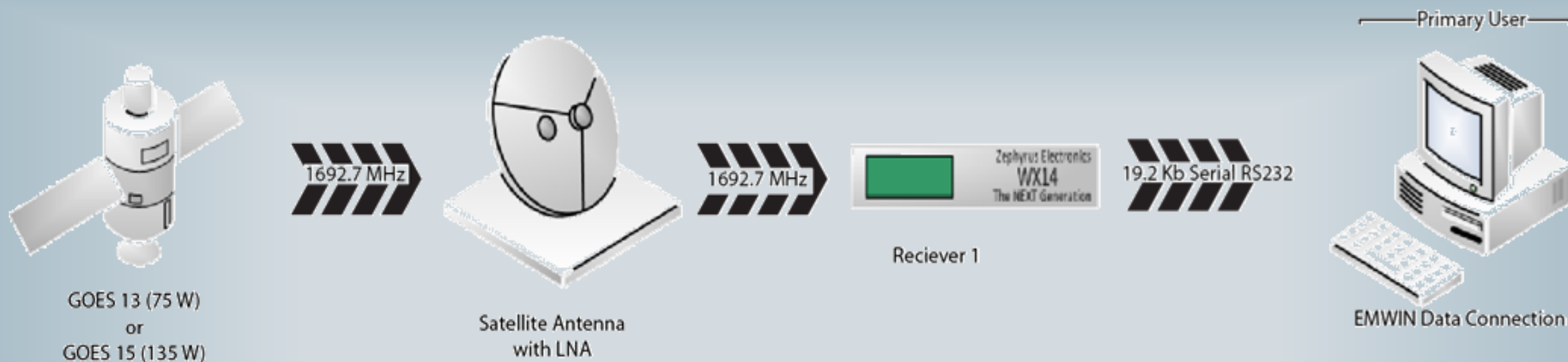


GOES 13- Este

Image Credit: NWS/NOAA

| ¿CÓMO FUNCIONA?

4

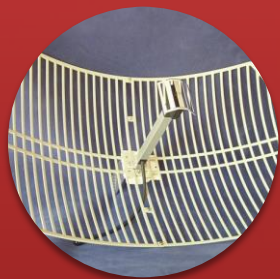


Adapted from: Zephyrus Electronics, 2013
WX14 EMWIN Receiver System Manual
By: José F. Martínez Colón
Puerto Rico Seismic Network

| INSTALACIÓN DEL EMWIN

5

1



La antena

2



Ángulos de
inclinación y
elevación

3



El receptor

4

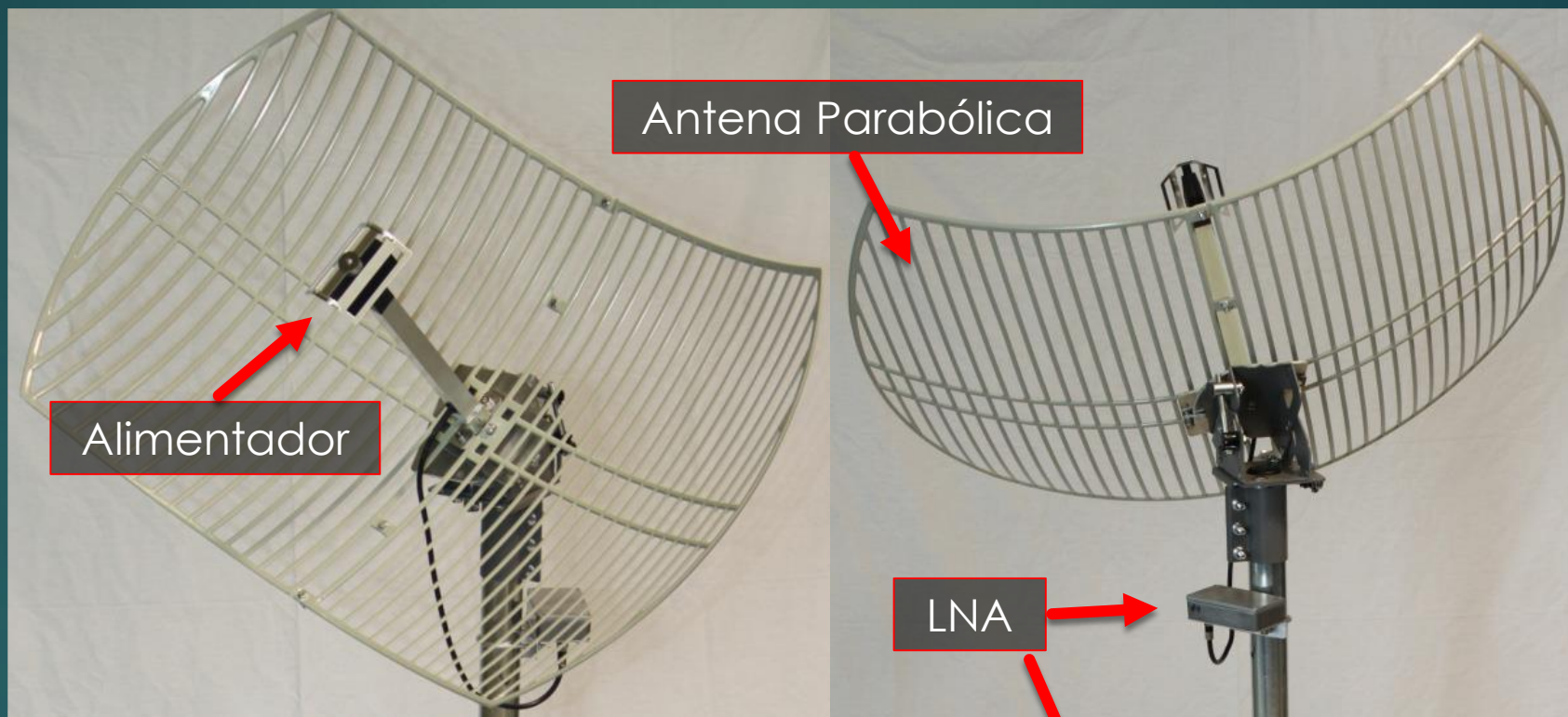


Weather
Message
Software



1 | LA ANTENA

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Werner Labs, Inc



1 | LA ANTENA

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2 | ÁNGULOS DE INCLINACIÓN Y ELEVACIÓN

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Satellite Look Angle Calculator:

http://www.groundcontrol.com/Satellite_Look_Angle_Calculator.htm



Products Service Areas ▾ Fixed Dish ▾ Mobile Dish ▾ Portable ▾ MCD-4800 ▾ BGAN ▾ M2M ▾ Solutions ▾ Support ▾ Contact Us ▾

Home > Support > Tools > Satellite Look Angle Calculator

Satellite Look Angle Calculator

This tool helps find obstacles, such as trees and buildings, between a satellite dish installation location and an orbiting satellite. Type in **ANY** street or city address (globally), and the look angle calculator will zoom into an overhead aerial view of your installation location and draw a line showing the compass heading toward the satellite. It will also list the elevation angle (aka "look angle"), so you can locate a perfect installation location.

All that is needed is the satellite's name (or its "longitude"), and any installation address worldwide.

The Satellite Look Angle Calculator, developed by Dishpointer, has been partially down since November 21, 2013. The draw line to the satellite is not being included in the map below. You can help us by contacting Dishpointer [at this link](#) and stating how great this tool is, and to please fix the draw line.

Select satellite or longitude >
Type in ANY installation address>
Press "Enter" on keyboard



2 | ÁNGULOS DE INCLINACIÓN Y ELEVACIÓN

9

Select satellite or longitude >
Type in ANY installation address>
Press "Enter" on keyboard

75W BRASILSAT B3 | GOES 13
Mayaguez Puerto Rico

Map Satellite

Google
DishPointer iPhone apps

Location
Latitude: 18.2013°
Longitude: -67.1452°

Dish
Elevation: 66.8°
Azimuth: 204.0°
LNB skew: 22.7°

Input

Select Satellite: **GOES 13**

Type Address: **Mayaguez, PR**

Output

Dish

Elevation: 66.8°
Azimuth: 204.0°
LNB skew: 22.7°

Elevation: is how high from the horizon the satellite is (90° is vertical)

Azimuth: is simply the compass heading to point the dish toward.

LNB skew: is used for installers in fine tuning the LNB radio axis.

Location: are the GPS coordinates (in decimal form) of the address.

2 | ÁNGULOS DE INCLINACIÓN Y ELEVACIÓN

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<http://wernerlabsinc.com/files/Antenna%20assembly.pdf>

Con un
clinómetro,
fije el ángulo
de
polarización:

22.7°



De igual
manera,
ajuste el
ángulo de
elevación:

66.8°

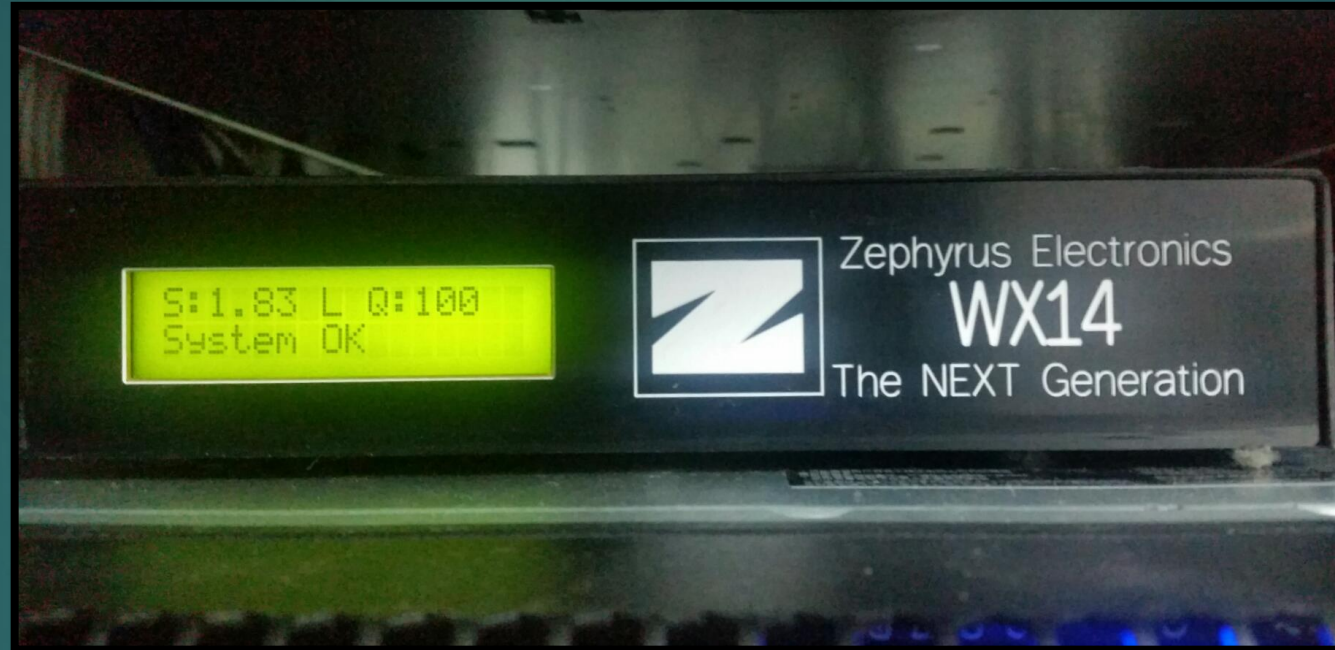


Con una
brújula, fije la
antena con el
ángulo de
acimut
relativo al
norte
magnético:

204.0°

3.A | RECIBIDOR ZEPHYRUS WX-14

11



► Conecte:

1. el cable coaxial (que sale del LNA) al receptor
2. el conector DC (suministro de energía)
3. el extremo masculino del cable DB9 al conector DB9(RS232 Data) y el otro extremo, a la computadora

3.A | RECIBIDOR ZEPHYRUS WX-14

12

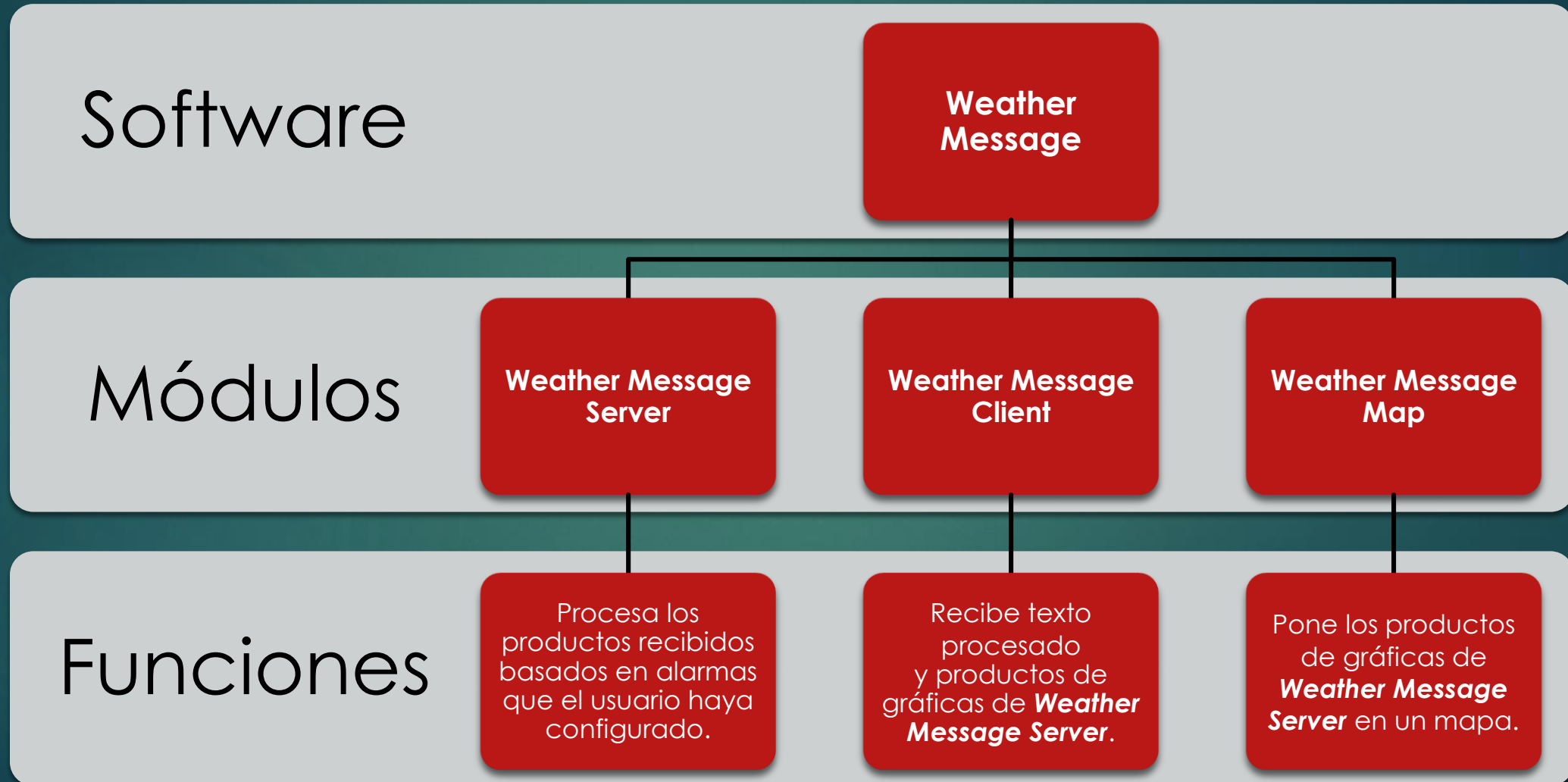




4 | WX Weather Message Software

4 | WEATHER MESSAGE SOFTWARE

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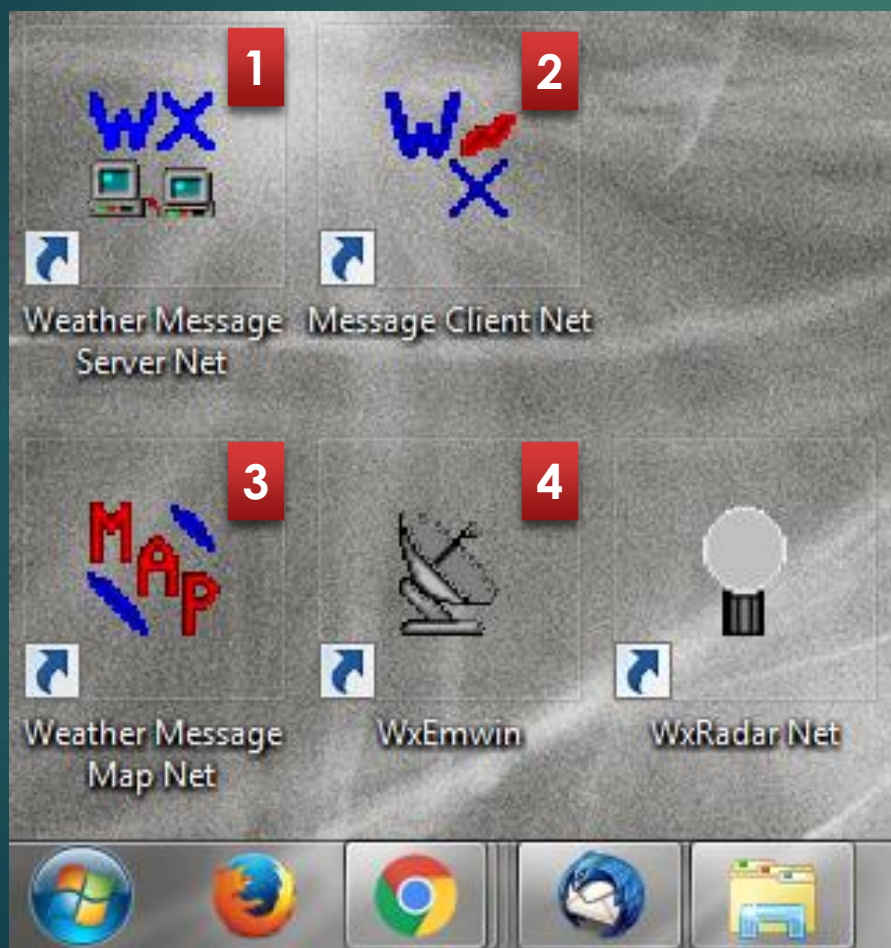


4 | WEATHER MESSAGE

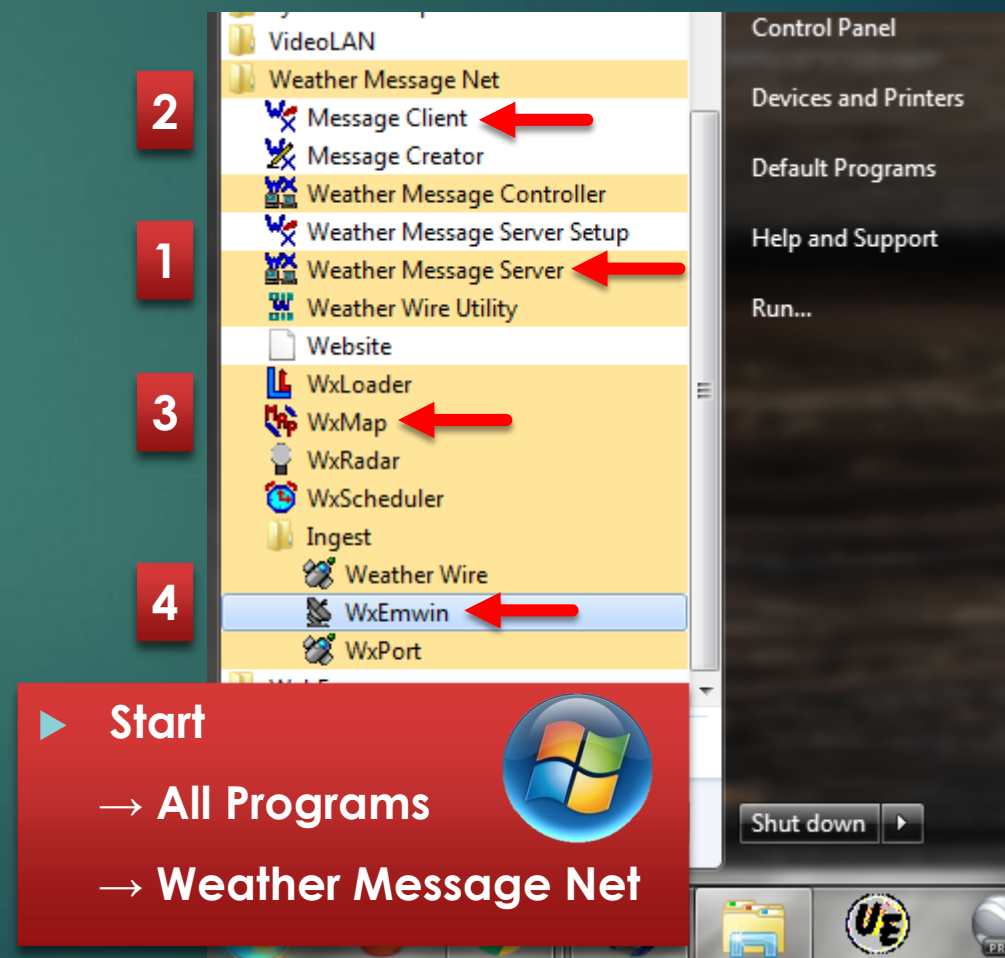
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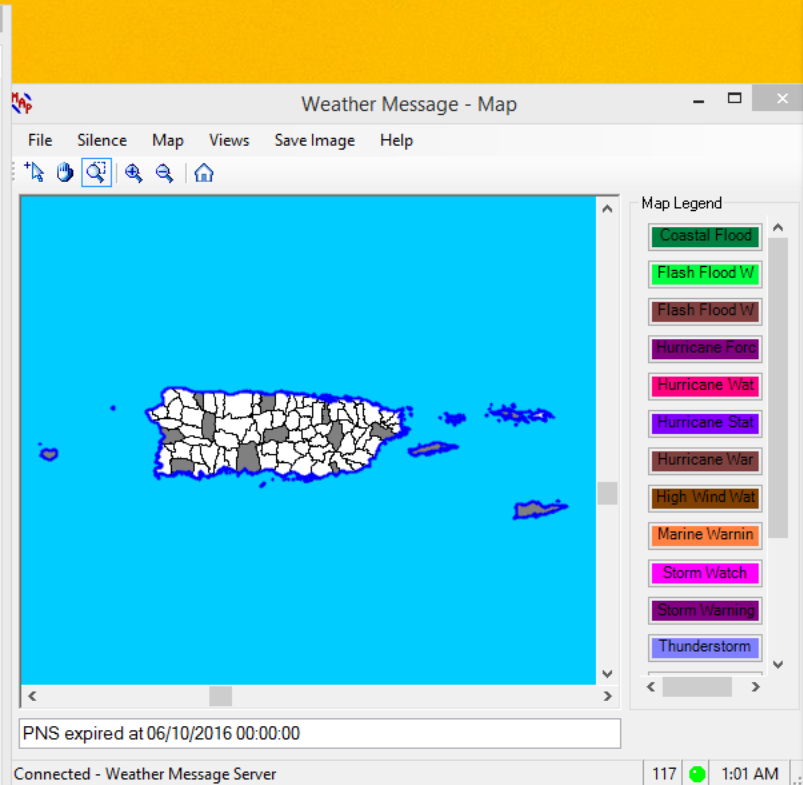
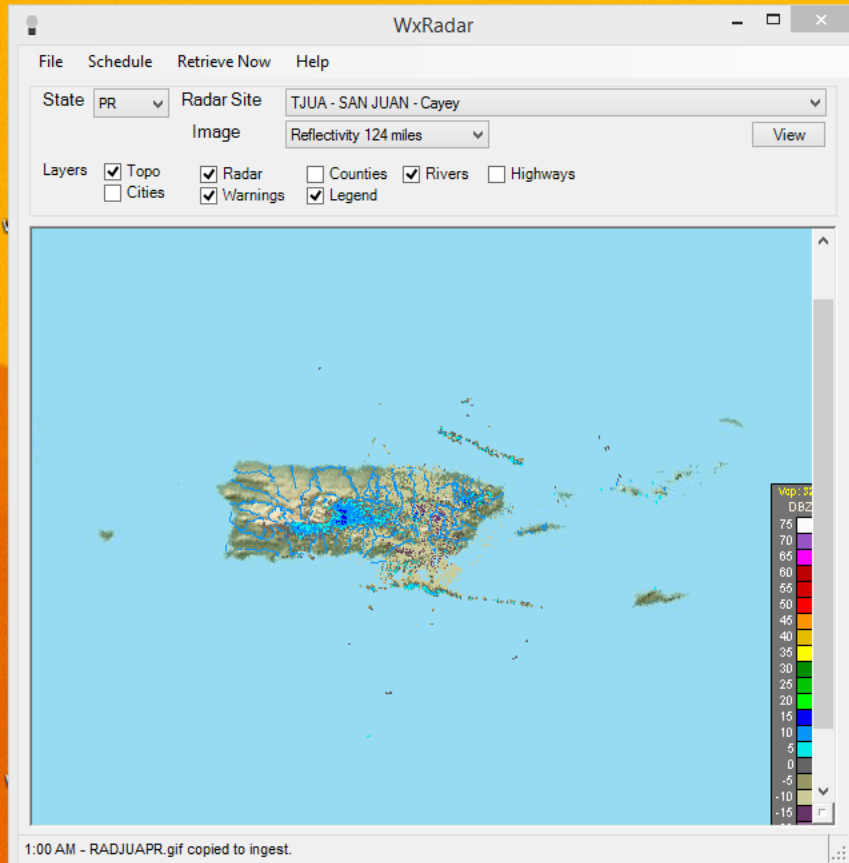
¿Cómo se reinicia el programa Weather Message?

Desktop



Start Menu





Weather Message Server - 4.0

File Help

Processing

File : AIRF01FJ.TXT
Office: NFFN
Date : 100000
Local : 06/10/2016 00:00
WMO : UPFJ01
AWIPS : UPFJ01

Duplicate Message Received

Processing File Name
...RXFILES\AIRF01FJ.TXT

Processed 3238/0 Message Clients 2
Alarm File 1 Map Clients 2

Status
TCP/IP
Connection Closed: 208.64.252.230
Email
Sent Email to Group ANALISTAS-ALL
Fax
Loaded Settings
Page
Loaded Settings
Image
Loaded Settings
X10
Archive / FTP
Receive File Error Connection failed: A connectio
Print

Weather Message - Message Client

File Silence Text Quick List Image Viewer Window Help

Tornado

Product List

Live Request Alarms

Flash Flood Guidance

FOUS62 KALR 100043
FFGSJU
COUNTY FLASH FLOOD GUIDANCE...PUERTO RICO
NATIONAL WEATHER SERVICE
SOUTHEAST RIVER FORECAST CENTER...ATLANTA GA
841 PM EDT THU JUN 9 2016

INCHES OF RAINFALL FOR SPECIFIED DURATIONS REQUIRED TO PRODUCE
FLASH FLOODING IN FORECAST ZONES. LOWER AMOUNTS MAY CAUSE
FLASH FLOODING IN URBAN OR MOUNTAINOUS AREAS.

.B ALR 20160610 Z DH00/DC201606100041 /DUE/PPHCF/PPTCF/PRQCF
:IDENTIFIERS ARE 2-LETTER STATE, Z FOR ZONE, 3-DIGIT ZONE NUMBER
:
:IDENT 1HR 3HR 6HR ZONE NAME
:=====

IDENT	1HR	3HR	6HR	ZONE NAME
PRZ001	1.1/	2.0/	2.8	
PRZ002	1.1/	2.0/	2.8	
PRZ003	1.1/	2.0/	2.8	
PRZ004	1.1/	2.0/	2.8	
PRZ005	1.4/	1.9/	2.5	
PRZ006	1.4/	1.9/	2.5	
PRZ007	1.4/	1.9/	2.5	
PRZ008	1.4/	1.9/	2.5	
PRZ009	1.4/	1.9/	2.5	
PRZ010	1.4/	1.9/	2.5	
PRZ011	1.4/	1.9/	2.5	
PRZ012	1.8/	2.8/	3.9	
PRZ013	1.8/	2.8/	3.9	
VIZ001	2.0/	3.2/	4.4	
VIZ002	2.0/	3.0/	4.2	

.END
\$\$
S.E.R.F.C. 770-486-0028 or 770-282-2112
Regular Hours 6am-11pm Eastern Time
After Hours Please Follow Callback Instructions
-----Coastal Waters Forecast-----
FZCA52 TJSJ 091955
CWFSJU
COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE SAN JUAN PR
355 PM AST THU JUN 9 2016
PUERTO RICO AND U.S. VIRGIN ISLANDS WATERS
SEAS ARE PROVIDED AS A RANGE OF THE AVERAGE HEIGHT OF THE HIGHEST 1/3
OF THE SEAS...ALONG WITH THE OCCASIONAL HEIGHT OF THE AVERAGE HIGHEST
10 PERCENT OF THE SEAS.
AMZ700-100815-
355 PM AST THU JUN 9 2016
.SYNOPSIS FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS WATERS...
SURFACE HIGH PRESSURE ACROSS THE EAST CENTRAL ATLANTIC WILL
EXTEND TO THE BAHAMA ISLANDS FOR AT LEAST THE NEXT FIVE DAYS. THIS
WILL PROMOTE A MODERATE TO LOCALLY FRESH EAST SOUTHEAST WIND FLOW
INTO THE BEGINNING OF NEXT WEEK.
\$\$

Activate Windows
Go to PC settings to activate Windows.

Connected - Weather Message Server Silence 1:01 AM

WxEmwin - EMWIN Ingest Engine

File Port Help

Serial Ingest Software Demodulator Software Demodulator/2 Internet Ingest

Processing File Block File Size
AIRJ20FJ.TXT 1 of 1 1024

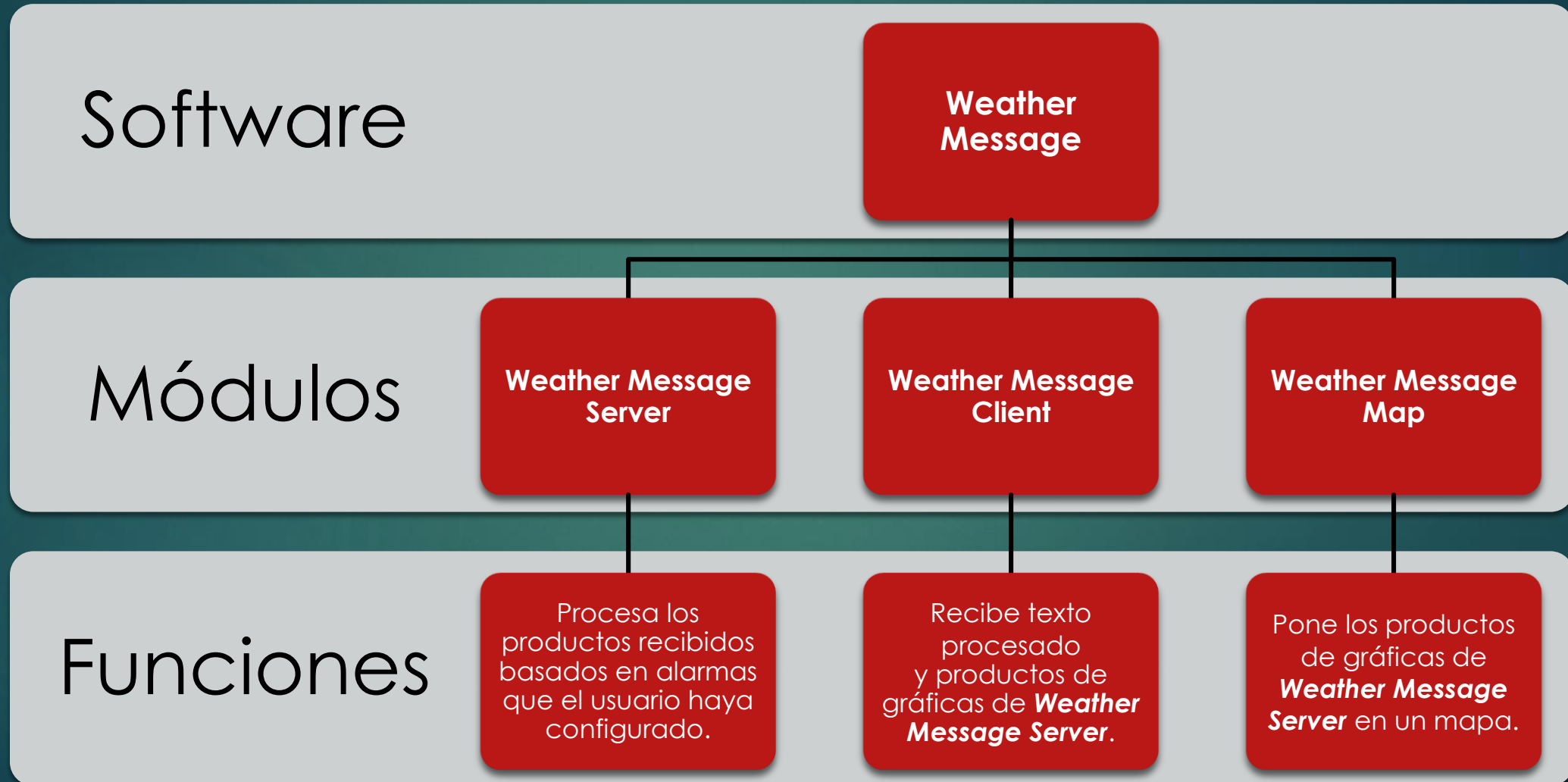
Port Com2 Packet Length 0
Total Blocks 3992 Bad Header 2
Bad Blocks 3 Check Sum 1
Error Percent 0.1 Block Count 1

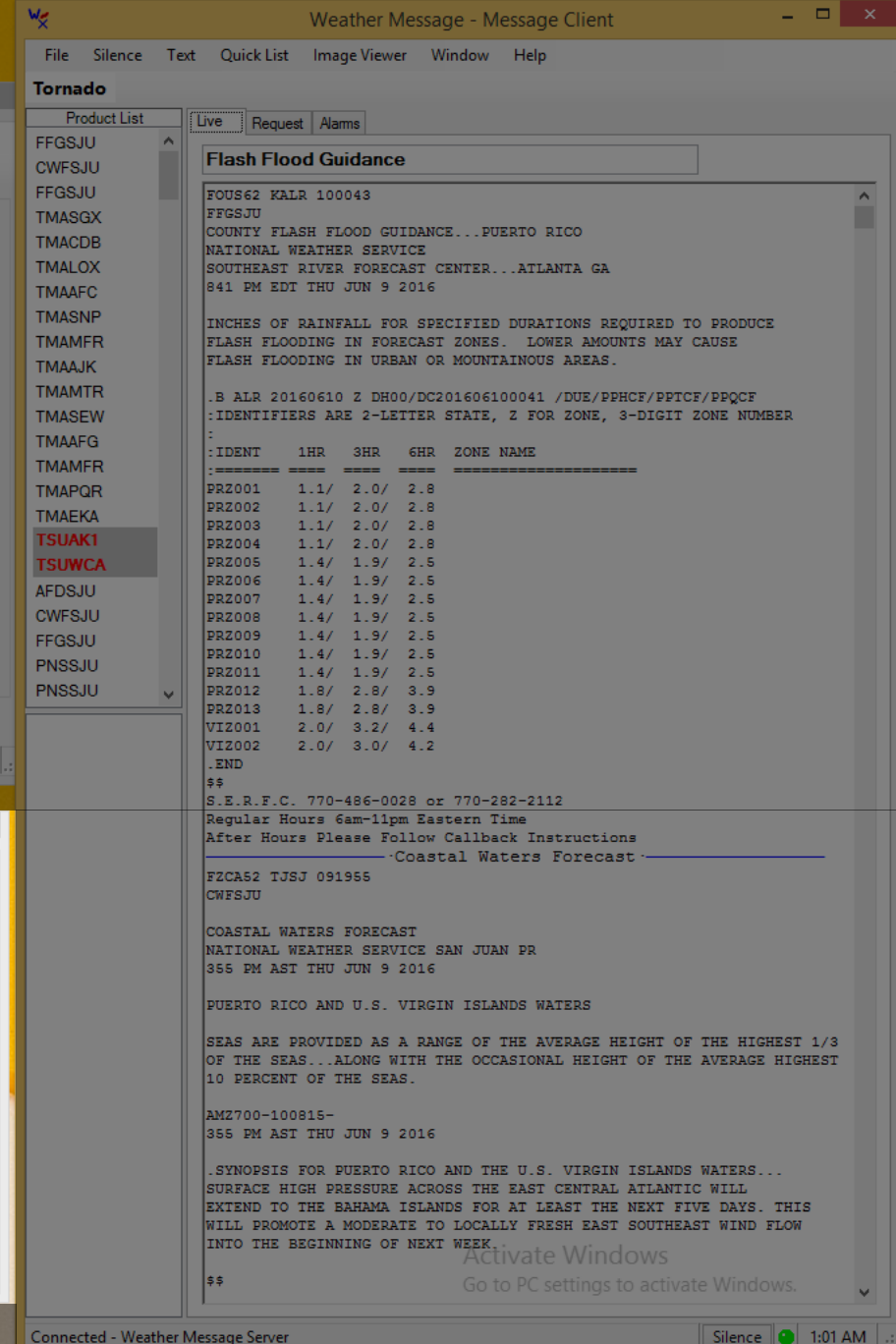
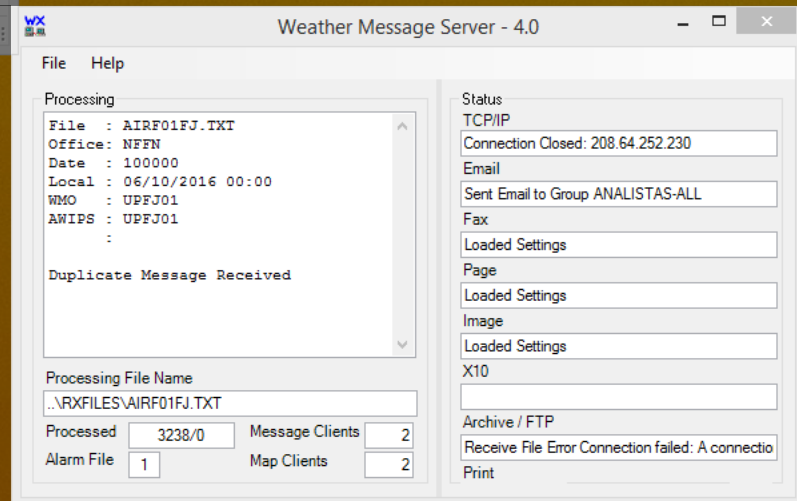
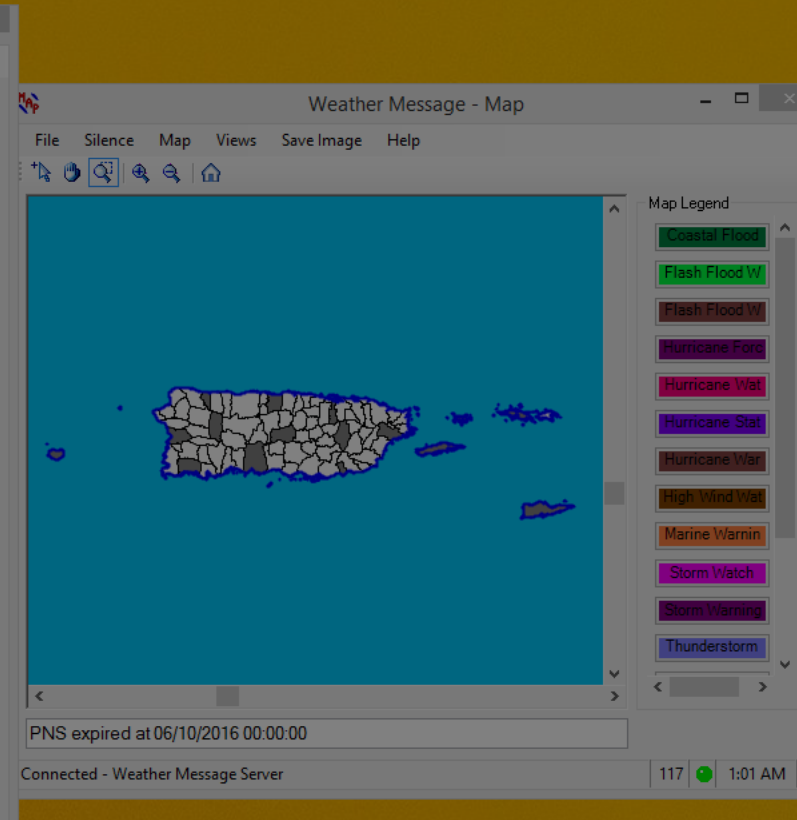
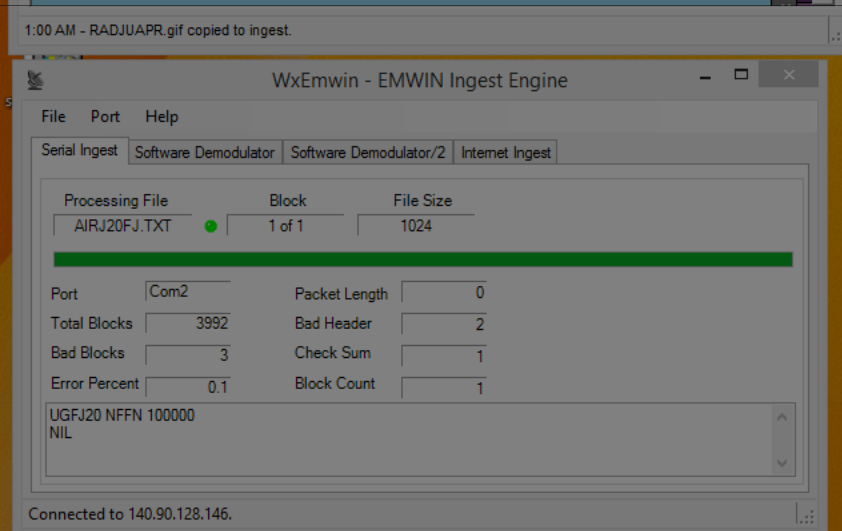
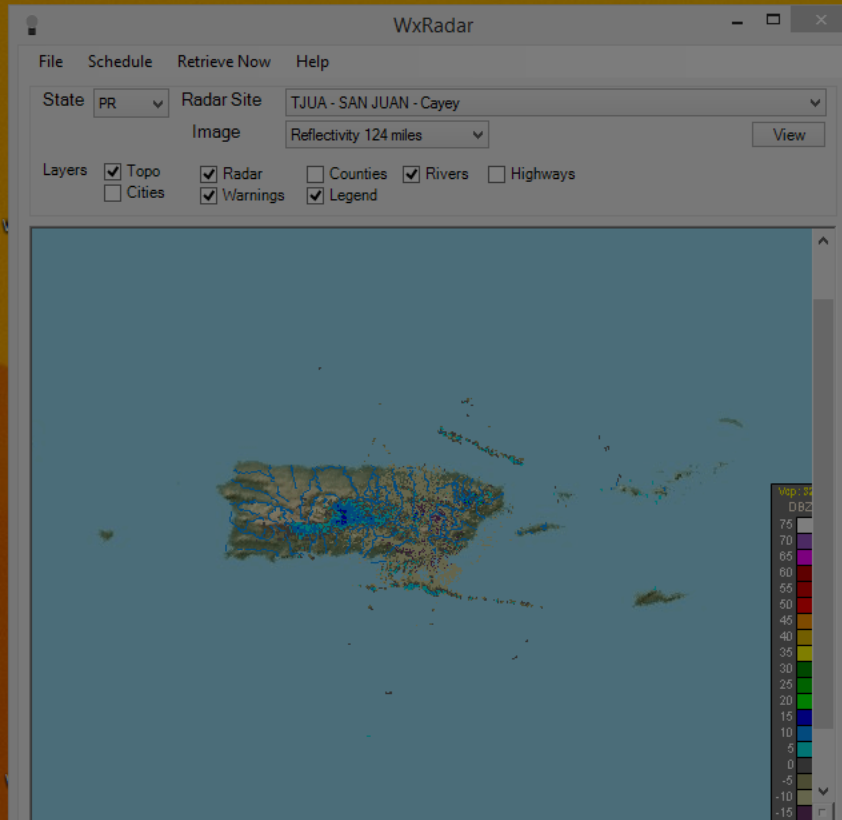
UGFJ20 NFFN 100000
NIL

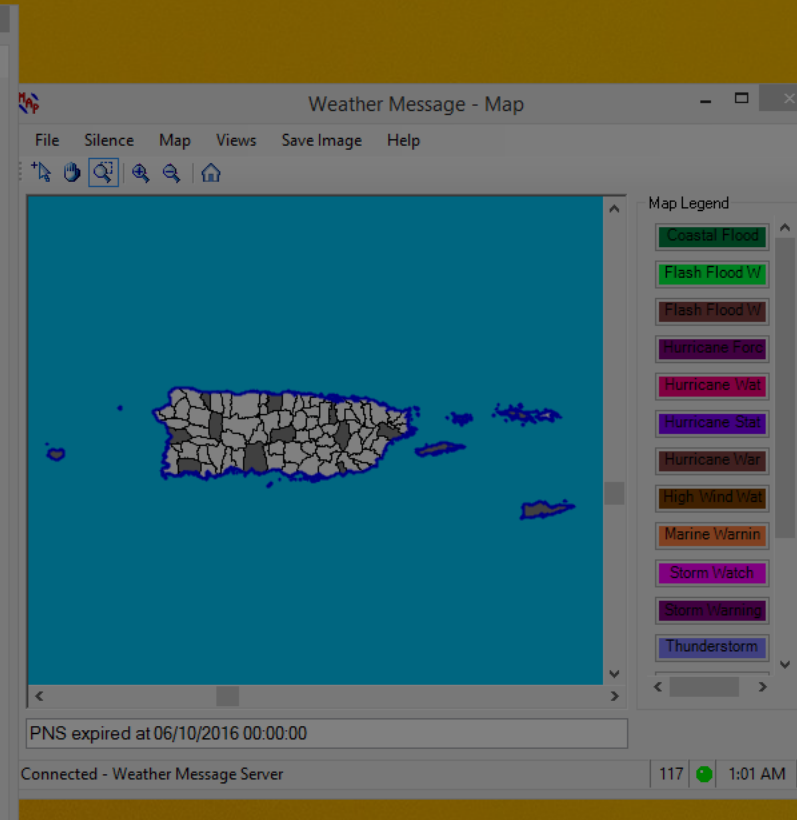
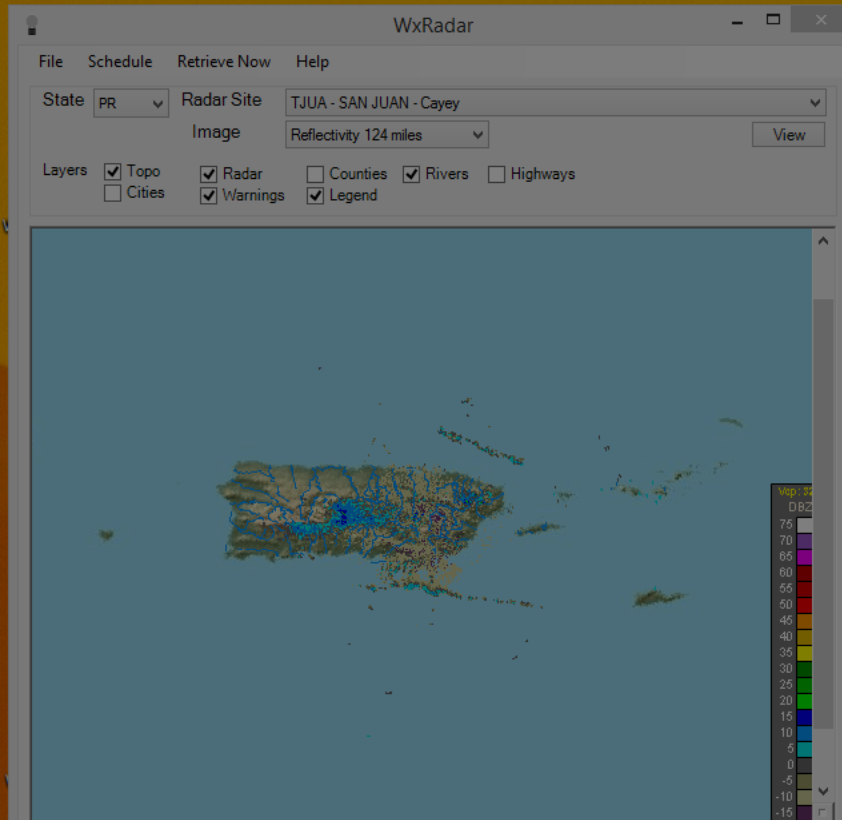
Connected to 140.90.128.146.

4 | WEATHER MESSAGE SOFTWARE

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Weather Message Message Client

File Silence Text Quick List Image Viewer Window Help

Tornado

Product List Live Request Alarms

Flash Flood Guidance

FOUS62 KALR 100043
FFGSJU
COUNTY FLASH FLOOD GUIDANCE...PUERTO RICO
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841 PM EDT THU JUN 9 2016

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:=====

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PRZ002	1.1/	2.0/	2.8	
PRZ003	1.1/	2.0/	2.8	
PRZ004	1.1/	2.0/	2.8	
PRZ005	1.4/	1.9/	2.5	
PRZ006	1.4/	1.9/	2.5	
PRZ007	1.4/	1.9/	2.5	
PRZ008	1.4/	1.9/	2.5	
PRZ009	1.4/	1.9/	2.5	
PRZ010	1.4/	1.9/	2.5	
PRZ011	1.4/	1.9/	2.5	
PRZ012	1.8/	2.8/	3.9	
PRZ013	1.8/	2.8/	3.9	
VIZ001	2.0/	3.2/	4.4	
VIZ002	2.0/	3.0/	4.2	

.END
\$\$
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FZCA52 TJSJ 091955
CWFSJU

COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE SAN JUAN PR
355 PM AST THU JUN 9 2016

PUERTO RICO AND U.S. VIRGIN ISLANDS WATERS

SEAS ARE PROVIDED AS A RANGE OF THE AVERAGE HEIGHT OF THE HIGHEST 1/3
OF THE SEAS...ALONG WITH THE OCCASIONAL HEIGHT OF THE AVERAGE HIGHEST
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AMZ700-100815-
355 PM AST THU JUN 9 2016

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INTO THE BEGINNING OF NEXT WEEK.
\$

Connected - Weather Message Server

1:00 AM - RADJUAPR.gif copied to ingest.

WxEmwin - EMWIN Ingest Engine

File Port Help

Serial Ingest Software Demodulator Software Demodulator/2 Internet Ingest

Processing File Block File Size

Processing File	Block	File Size
AIRJ20FJ.TXT	1 of 1	1024

Port Com2 Packet Length 0

Total Blocks 3992 Bad Header 2

Bad Blocks 3 Check Sum 1

Error Percent 0.1 Block Count 1

UGFJ20 NFFN 100000
NIL

Connected to 140.90.128.146.

Weather Message Server - 4.0

File Help

Setup
View Connections
Clear Errors
View Logfile
View Email Log
View Pager Log
View Fax Log
FTP Ingest
Show Ingest
Exit

Status
TCP/IP
Connection Closed: 208.64.252.230
Email
Sent Email to Group ANALISTAS-ALL
Fax
Loaded Settings
Page
Loaded Settings
Image
Loaded Settings
X10
Archive / FTP
Receive File Error Connection failed: A connectio
Print

Processed 3238/0 Message Clients 2
Alarm File 1 Map Clients 2

Weather Message Message Client

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Tornado

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:IDENT 1HR 3HR 6HR ZONE NAME
:=====

IDENT	1HR	3HR	6HR	ZONE NAME
PRZ001	1.1/	2.0/	2.8	
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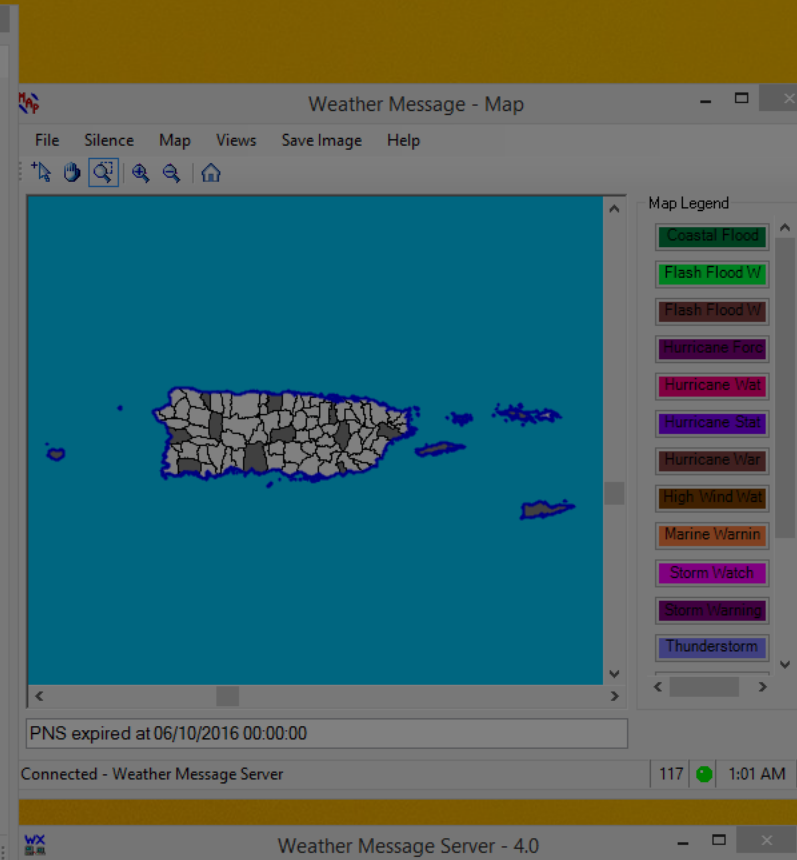
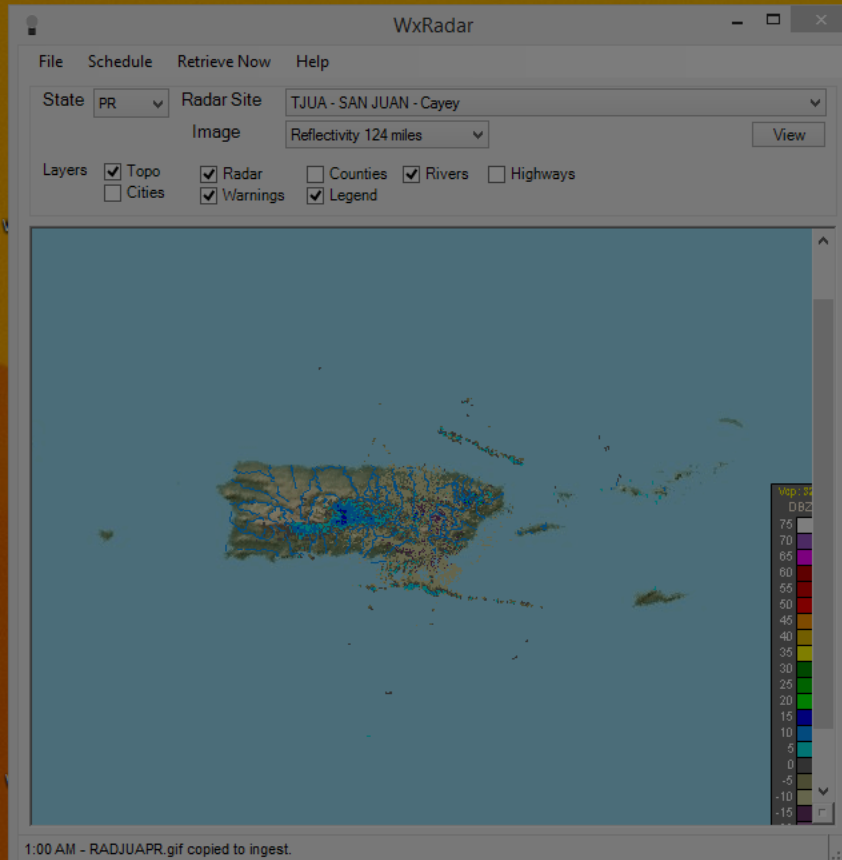
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Connected - Weather Message Server



Weather Message - Message Client

File Silence Text Quick List Image Viewer Window Help

Tornado

Product List Live Request Alarms

Flash Flood Guidance

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PRZ003	1.1/	2.0/	2.8	
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PRZ006	1.4/	1.9/	2.5	
PRZ007	1.4/	1.9/	2.5	
PRZ008	1.4/	1.9/	2.5	
PRZ009	1.4/	1.9/	2.5	
PRZ010	1.4/	1.9/	2.5	
PRZ011	1.4/	1.9/	2.5	
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PUERTO RICO AND U.S. VIRGIN ISLANDS WATERS

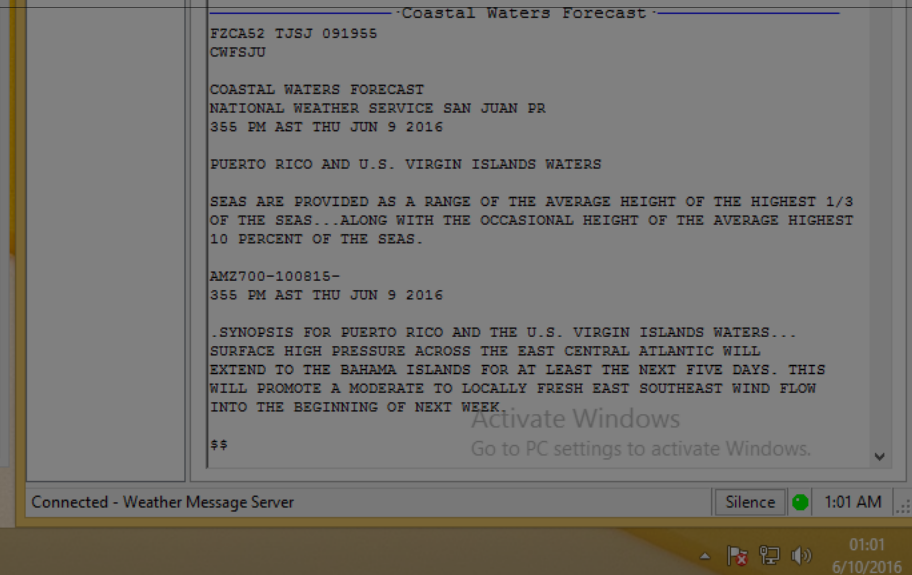
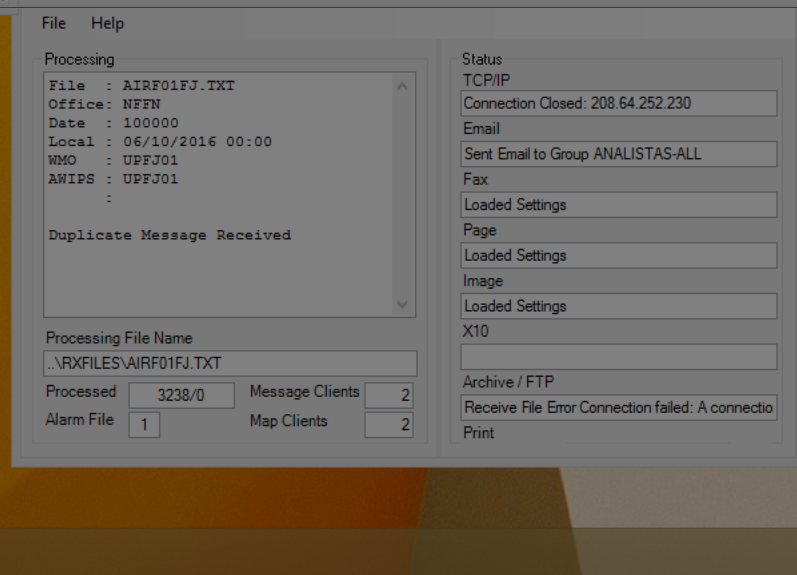
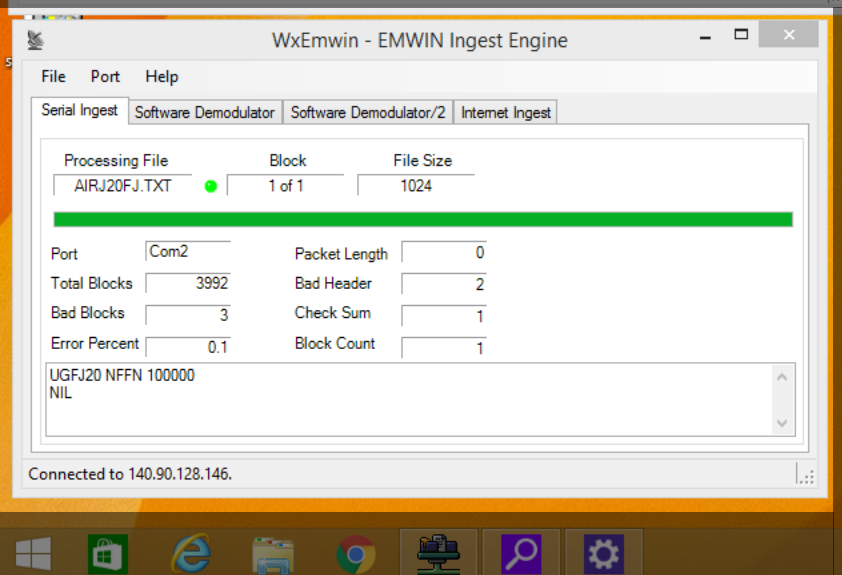
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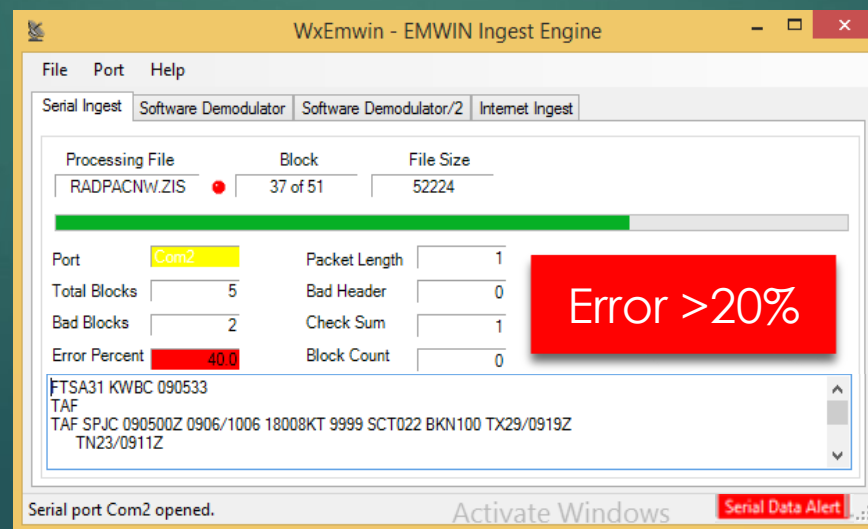
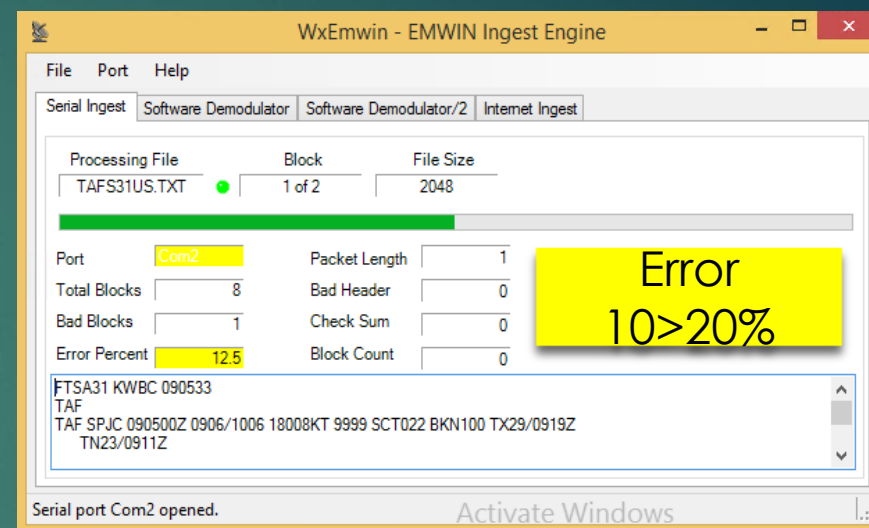
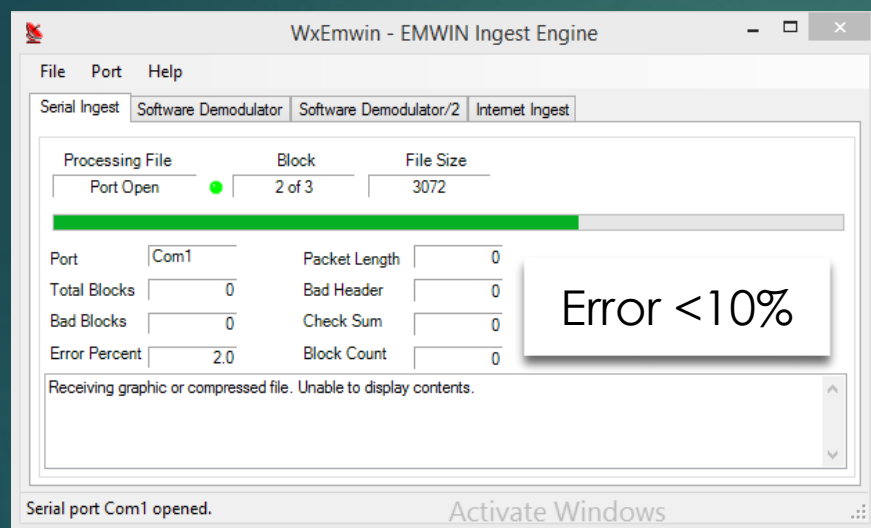
Connected - Weather Message Server Silence 1:01 AM



4 | WEATHER MESSAGE SOFTWARE

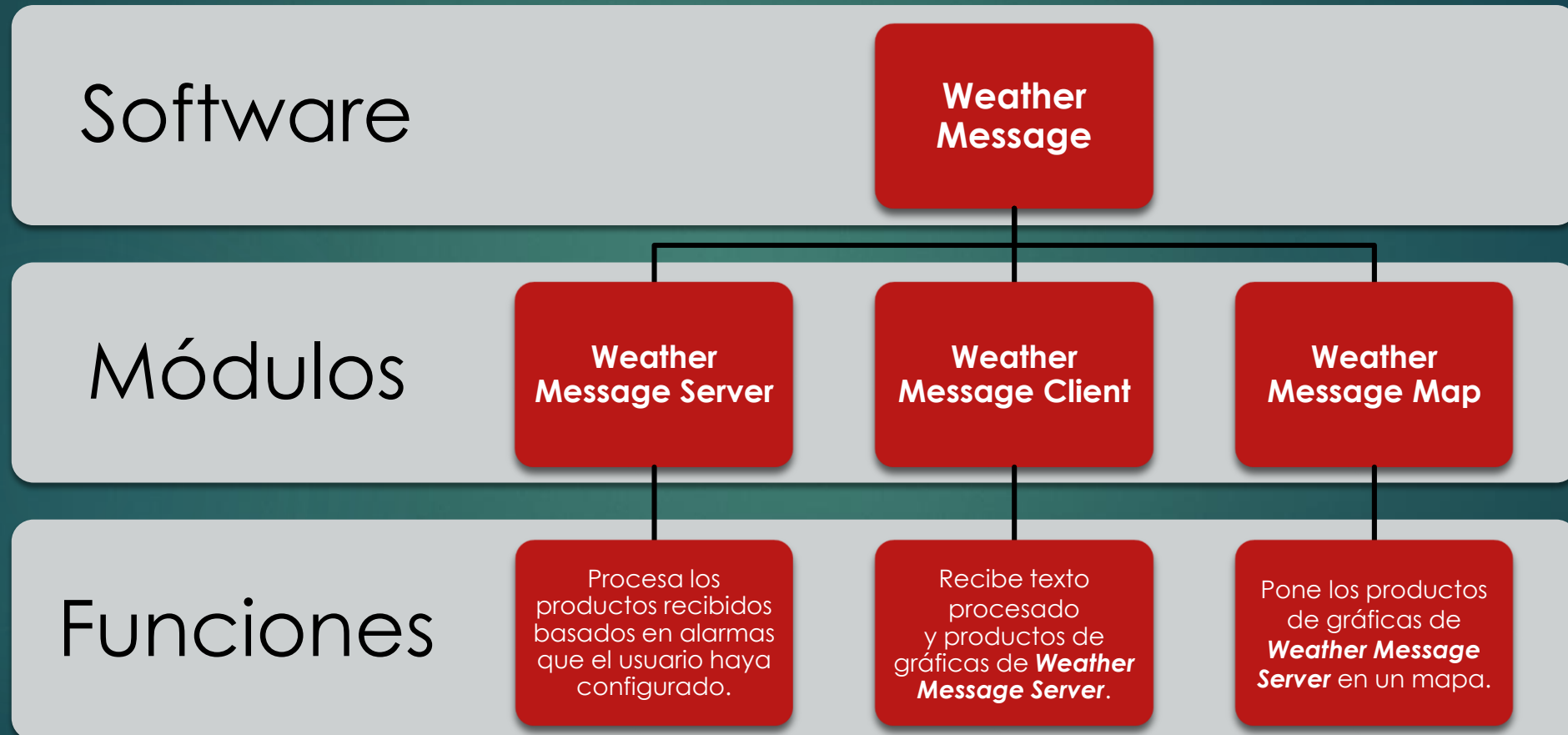
21

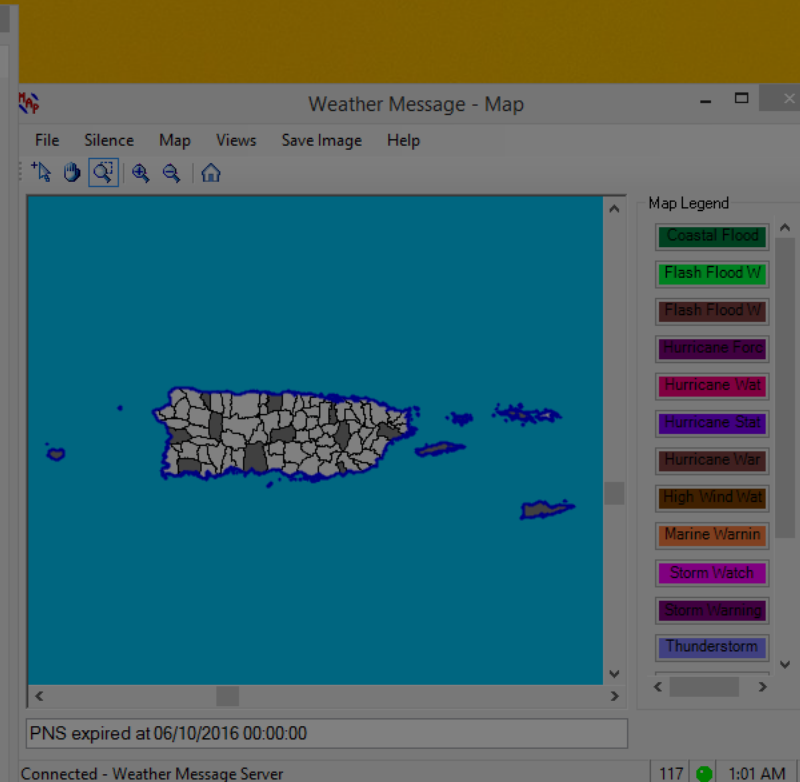
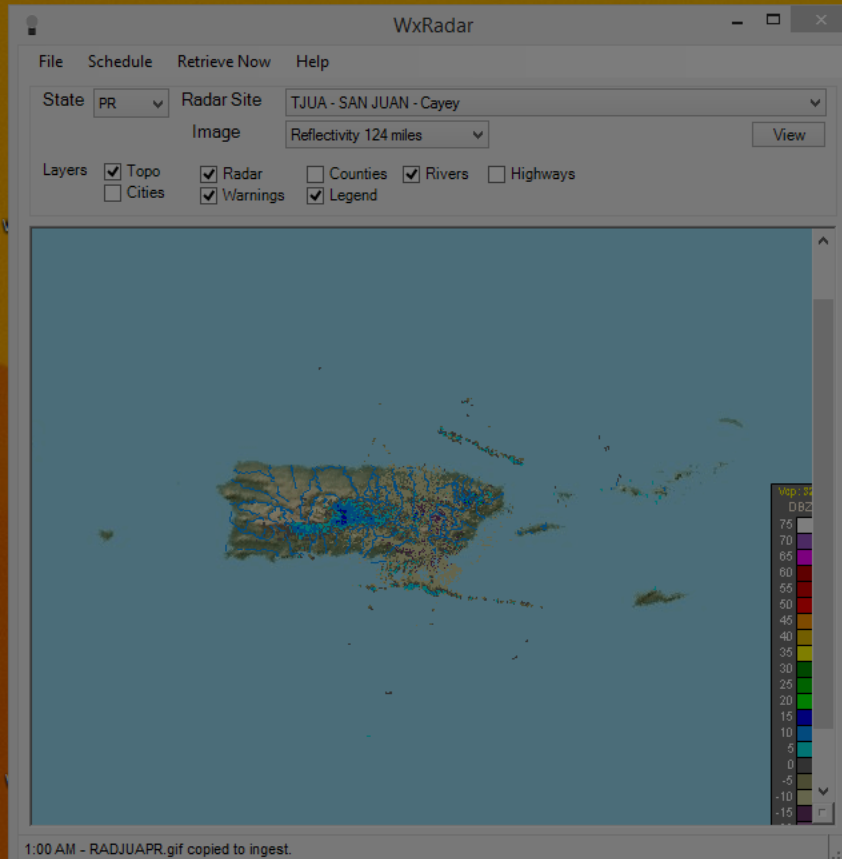
- Para asegurarse que **Weather Message Server** está recibiendo data:



4 | WEATHER MESSAGE SOFTWARE

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Weather Message Server - 4.0

File Help

Processing

File : AIRF01FJ.TXT
Office: NFFN
Date : 100000
Local : 06/10/2016 00:00
WMO : UPFJ01
AWIPS : UPFJ01

Duplicate Message Received

Processing File Name
...RXFILES\AIRF01FJ.TXT

Processed 3238/0 Message Clients 2
Alarm File 1 Map Clients 2

Status
TCP/IP
Connection Closed: 208.64.252.230
Email
Sent Email to Group ANALISTAS-ALL
Fax
Loaded Settings
Page
Loaded Settings
Image
Loaded Settings
X10
Archive / FTP
Receive File Error Connection failed: A connectio
Print

Weather Message - Message Client

File Silence Text Quick List Image Viewer Window Help

Tornado

Product List Live Request Alarms

Flash Flood Guidance

FOUS62 KALR 100043
FFGSJU
COUNTY FLASH FLOOD GUIDANCE...PUERTO RICO
NATIONAL WEATHER SERVICE
SOUTHEAST RIVER FORECAST CENTER...ATLANTA GA
841 PM EDT THU JUN 9 2016

INCHES OF RAINFALL FOR SPECIFIED DURATIONS REQUIRED TO PRODUCE
FLASH FLOODING IN FORECAST ZONES. LOWER AMOUNTS MAY CAUSE
FLASH FLOODING IN URBAN OR MOUNTAINOUS AREAS.

.B ALR 20160610 Z DH00/DC201606100041 /DUE/PPHCF/PPTCF/PPQCF
:IDENTIFIERS ARE 2-LETTER STATE, Z FOR ZONE, 3-DIGIT ZONE NUMBER
:
:IDENT 1HR 3HR 6HR ZONE NAME
:=====

IDENT	1HR	3HR	6HR	ZONE NAME
PRZ001	1.1/	2.0/	2.8	
PRZ002	1.1/	2.0/	2.8	
PRZ003	1.1/	2.0/	2.8	
PRZ004	1.1/	2.0/	2.8	
PRZ005	1.4/	1.9/	2.5	
PRZ006	1.4/	1.9/	2.5	
PRZ007	1.4/	1.9/	2.5	
PRZ008	1.4/	1.9/	2.5	
PRZ009	1.4/	1.9/	2.5	
PRZ010	1.4/	1.9/	2.5	
PRZ011	1.4/	1.9/	2.5	
PRZ012	1.8/	2.8/	3.9	
PRZ013	1.8/	2.8/	3.9	
VIZ001	2.0/	3.2/	4.4	
VIZ002	2.0/	3.0/	4.2	

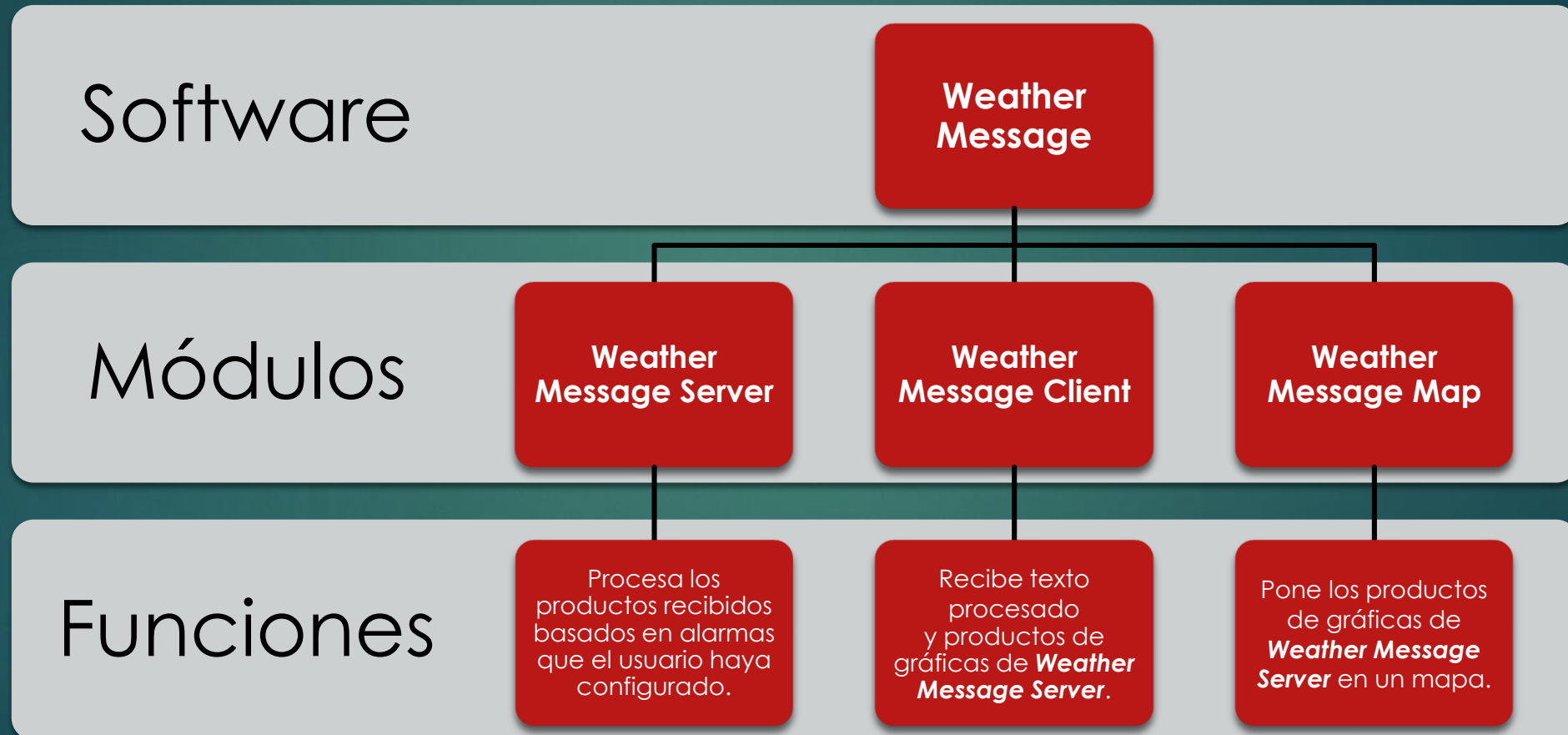
.END
\$\$
S.E.R.F.C. 770-486-0028 or 770-282-2112
Regular Hours 6am-11pm Eastern Time
After Hours Please Follow Callback Instructions
-----Coastal Waters Forecast-----
FZCA52 TJSJ 091955
CWFSJU
COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE SAN JUAN PR
355 PM AST THU JUN 9 2016
PUERTO RICO AND U.S. VIRGIN ISLANDS WATERS
SEAS ARE PROVIDED AS A RANGE OF THE AVERAGE HEIGHT OF THE HIGHEST 1/3
OF THE SEAS...ALONG WITH THE OCCASIONAL HEIGHT OF THE AVERAGE HIGHEST
10 PERCENT OF THE SEAS.
AMZ700-100815-
355 PM AST THU JUN 9 2016
.SYNOPSIS FOR PUERTO RICO AND THE U.S. VIRGIN ISLANDS WATERS...
SURFACE HIGH PRESSURE ACROSS THE EAST CENTRAL ATLANTIC WILL
EXTEND TO THE BAHAMA ISLANDS FOR AT LEAST THE NEXT FIVE DAYS. THIS
WILL PROMOTE A MODERATE TO LOCALLY FRESH EAST SOUTHEAST WIND FLOW
INTO THE BEGINNING OF NEXT WEEK.
\$\$

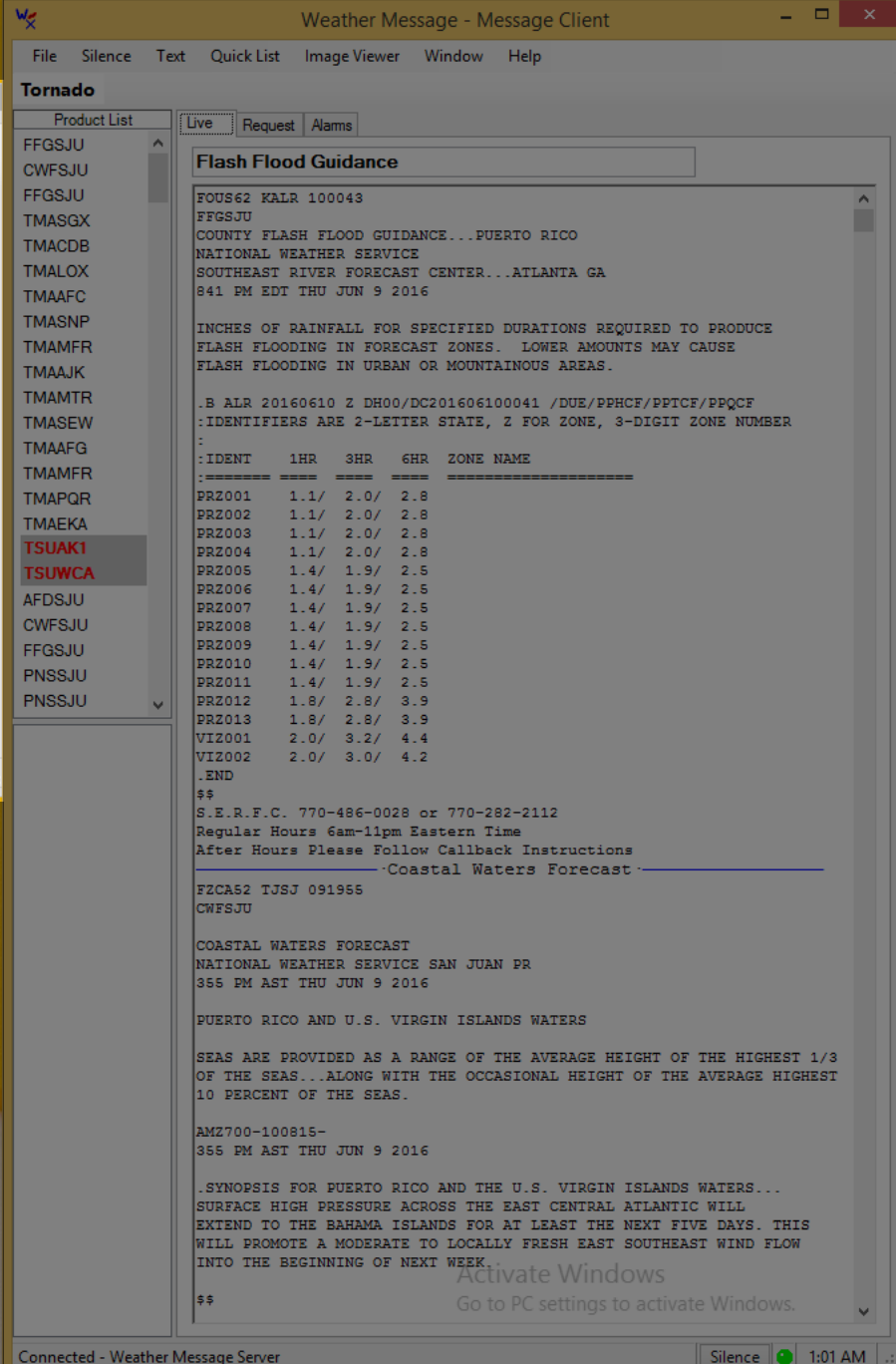
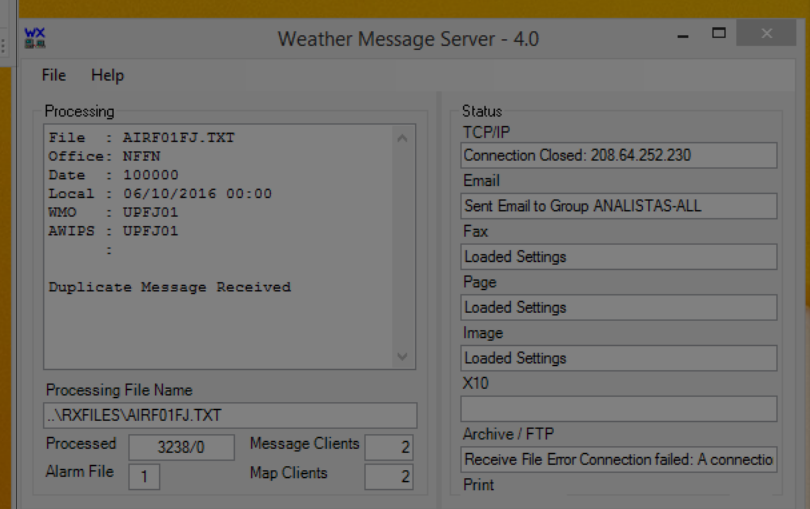
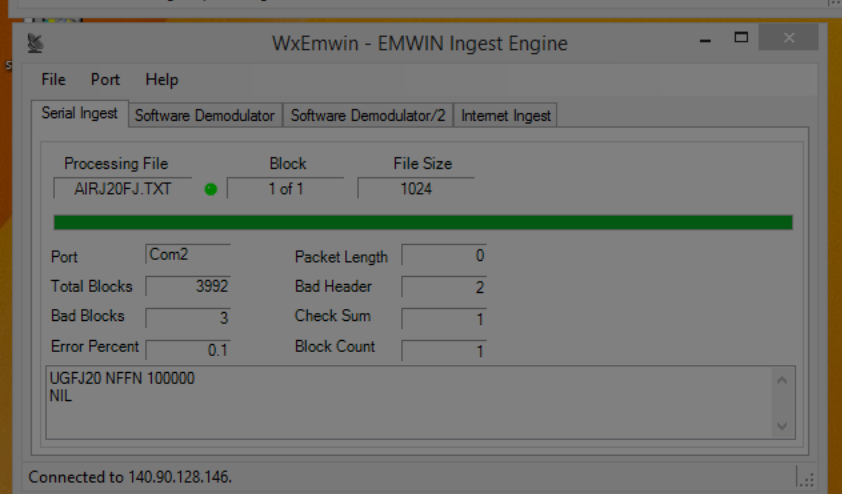
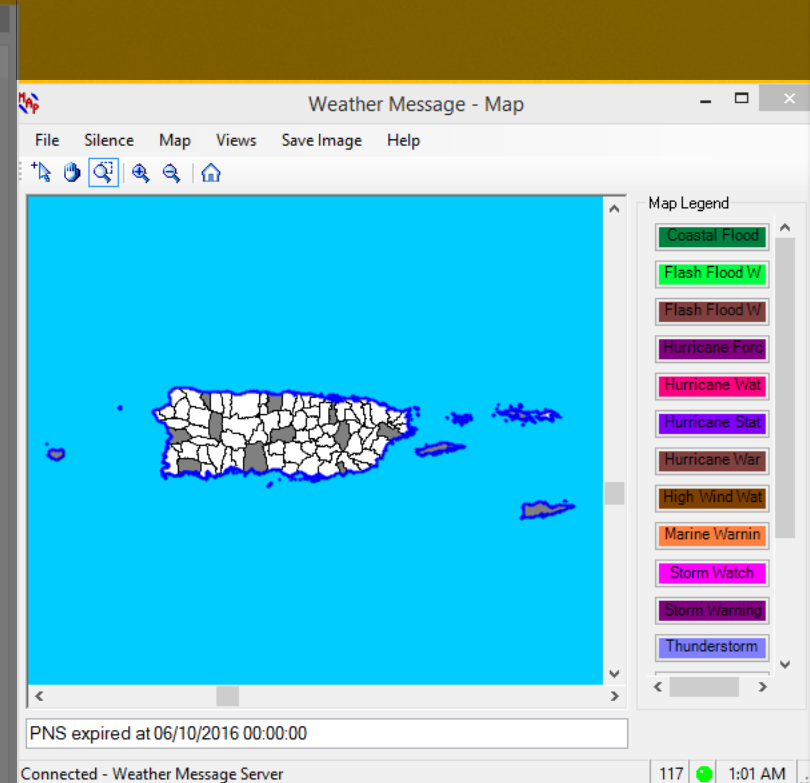
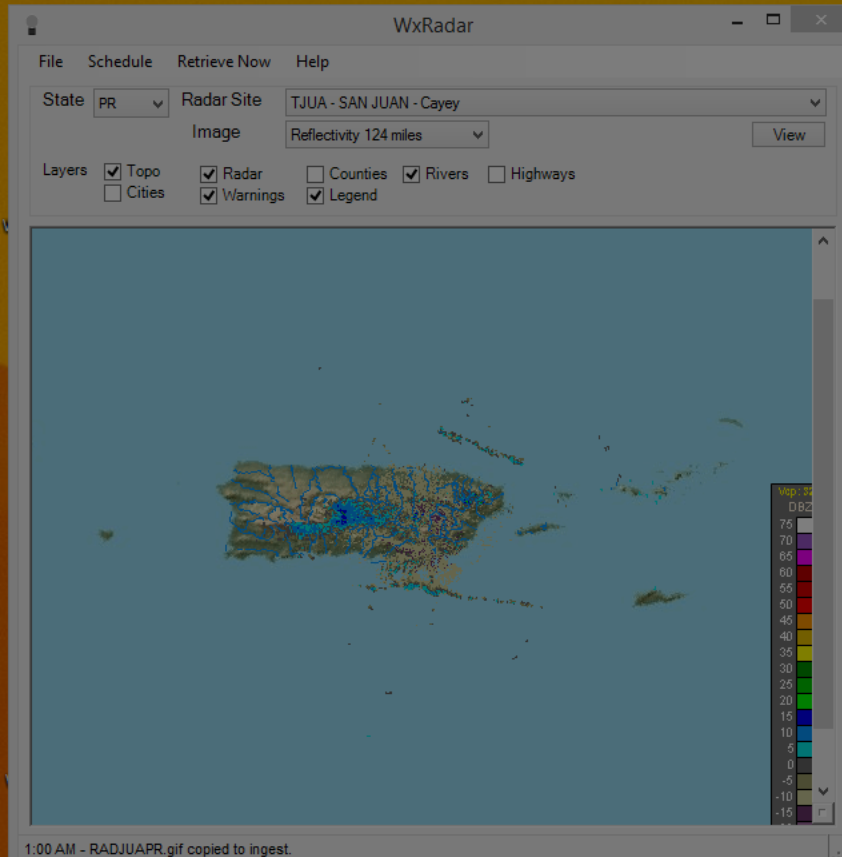
Activate Windows
Go to PC settings to activate Windows.

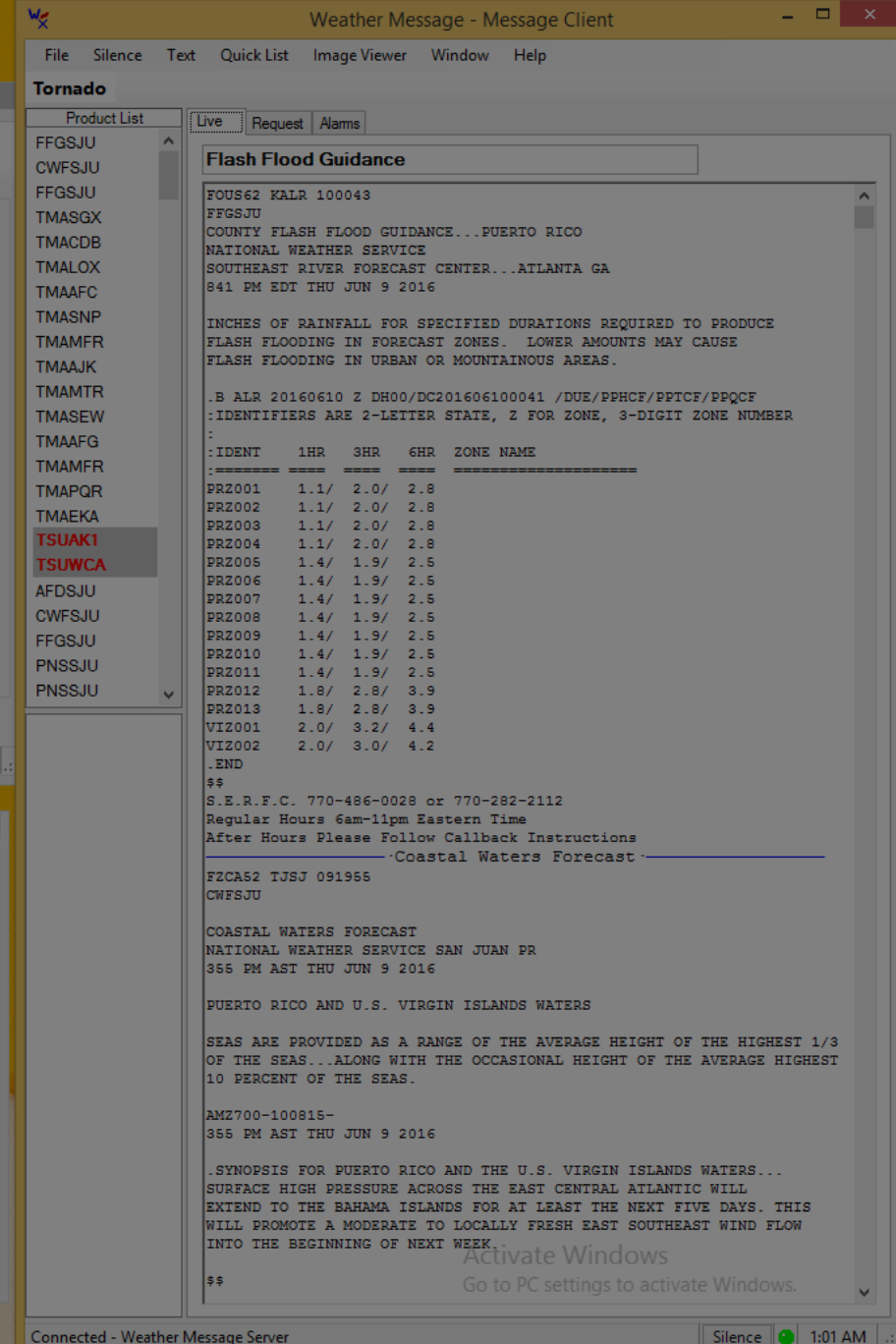
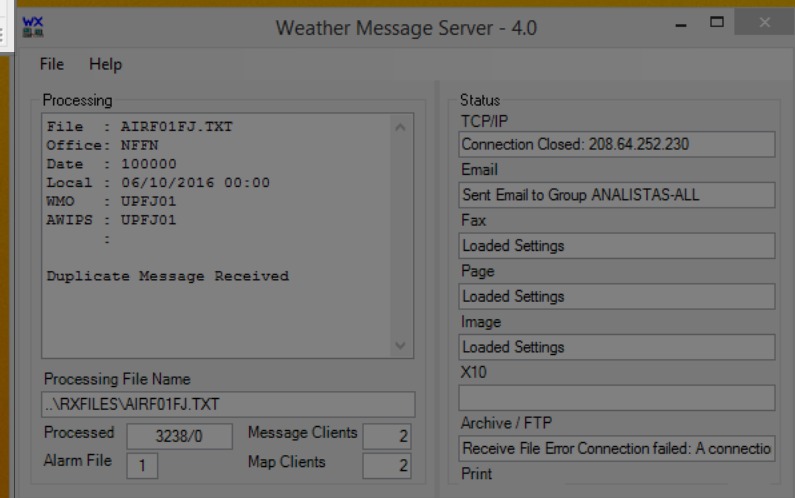
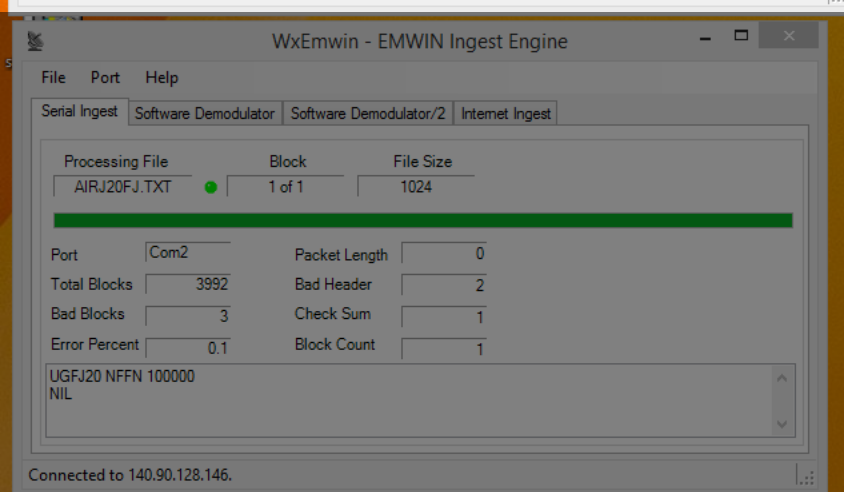
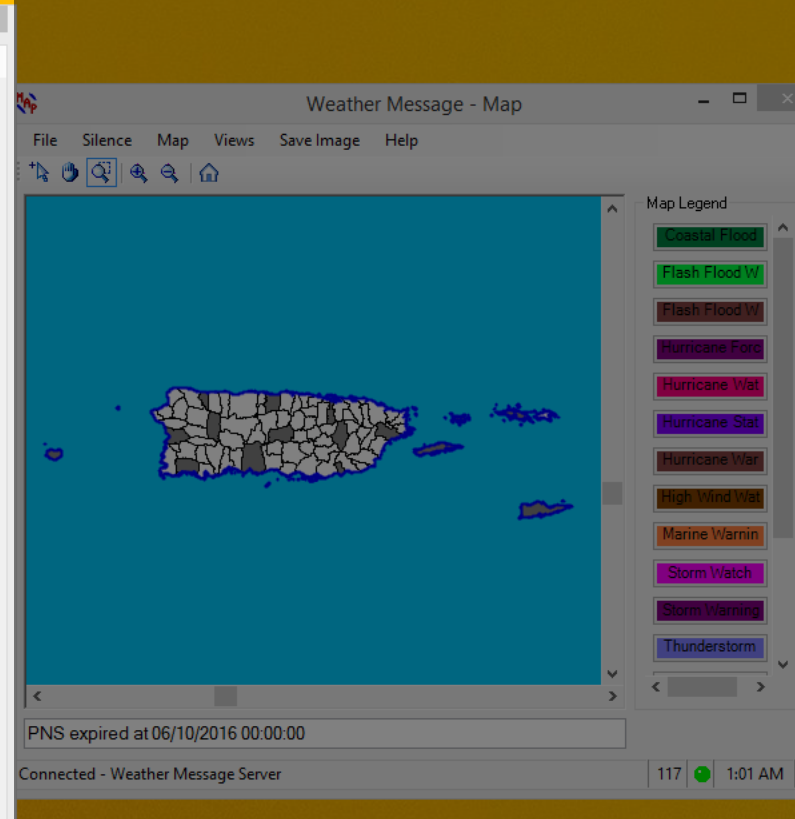
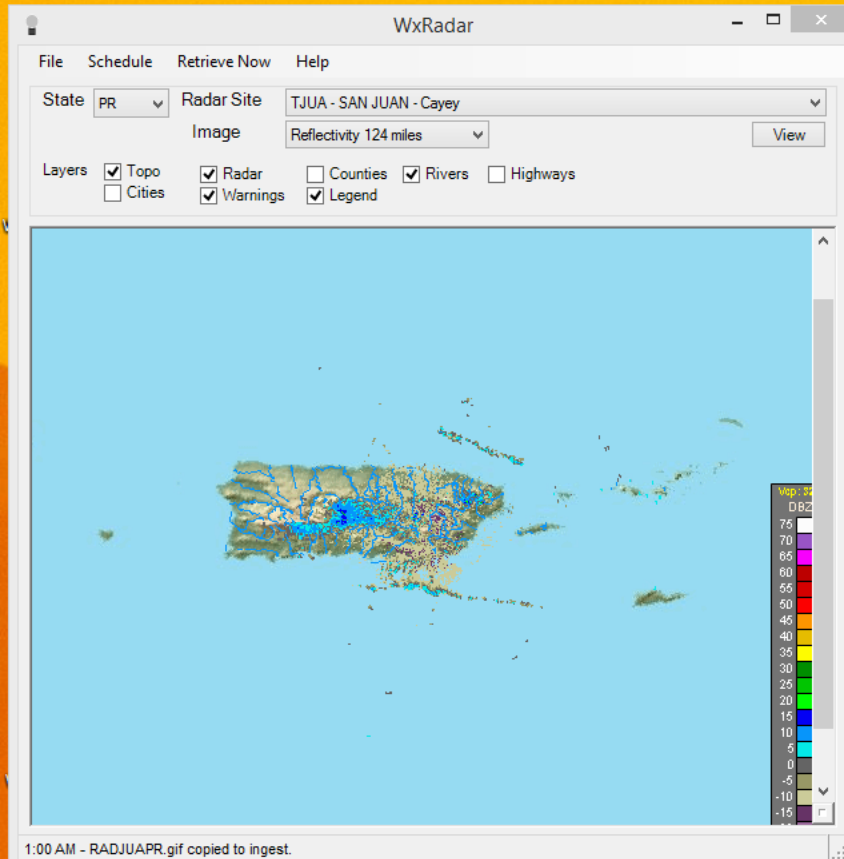
Connected - Weather Message Server Silence 1:01 AM

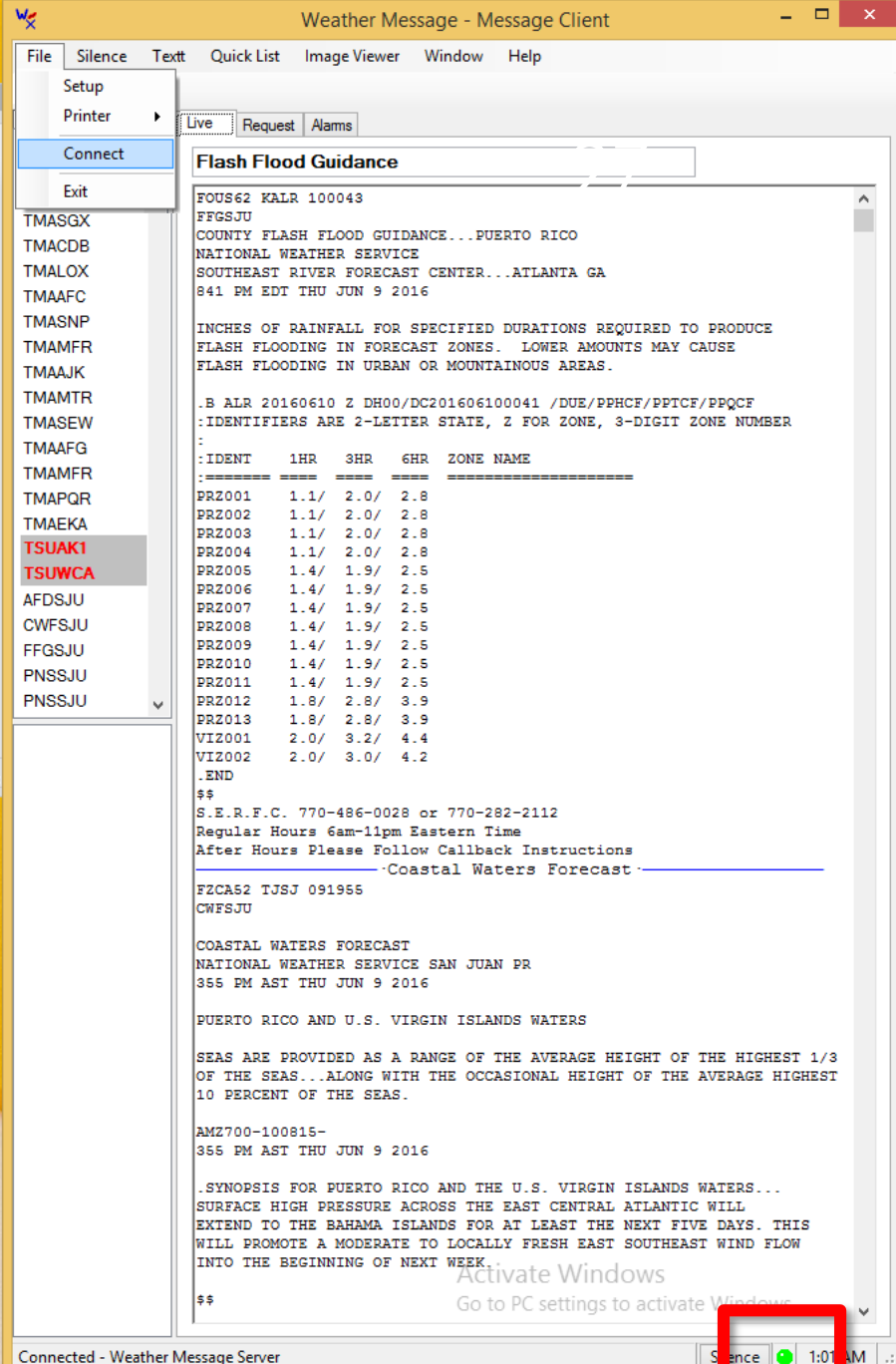
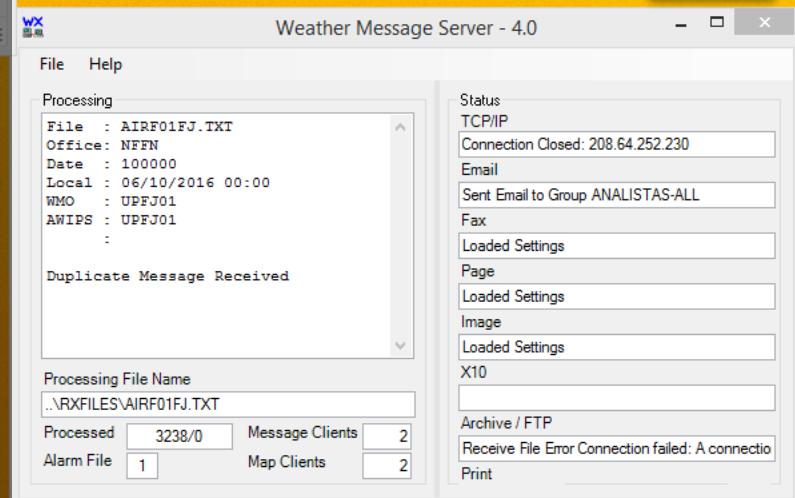
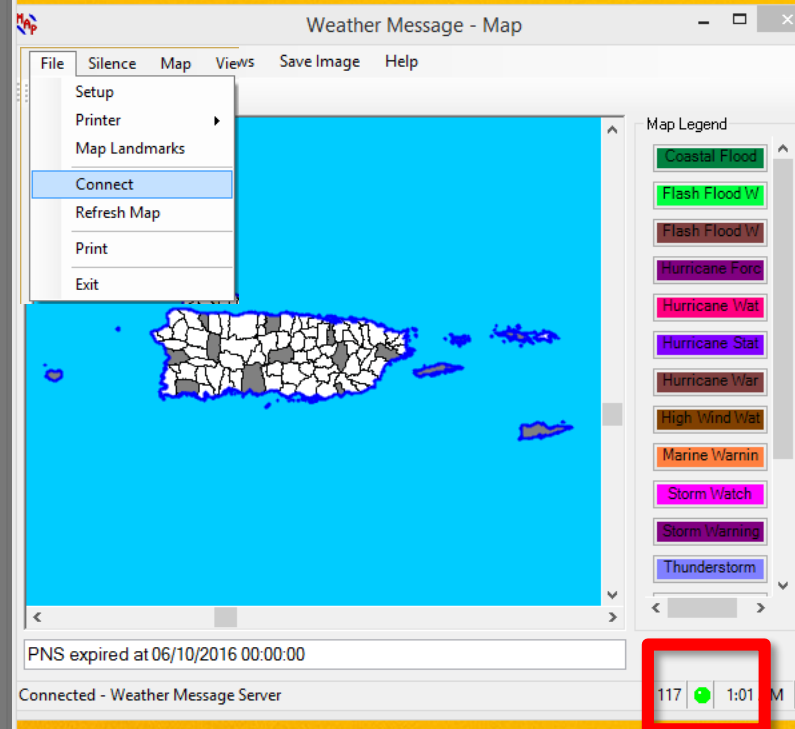
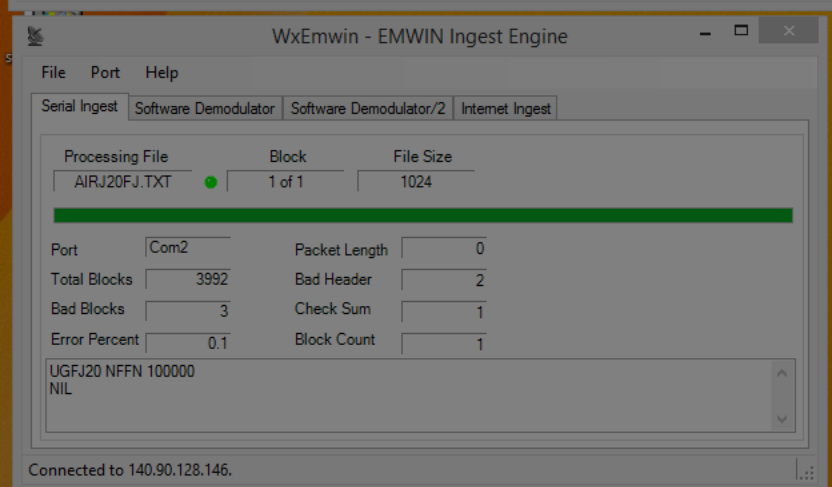
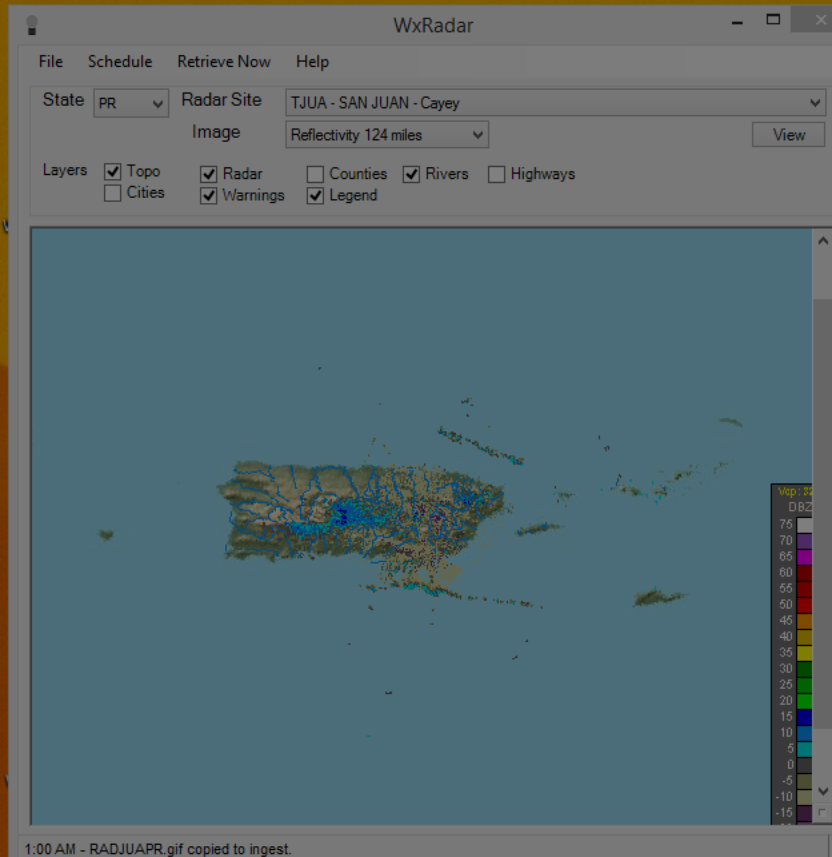
4 | WEATHER MESSAGE SOFTWARE

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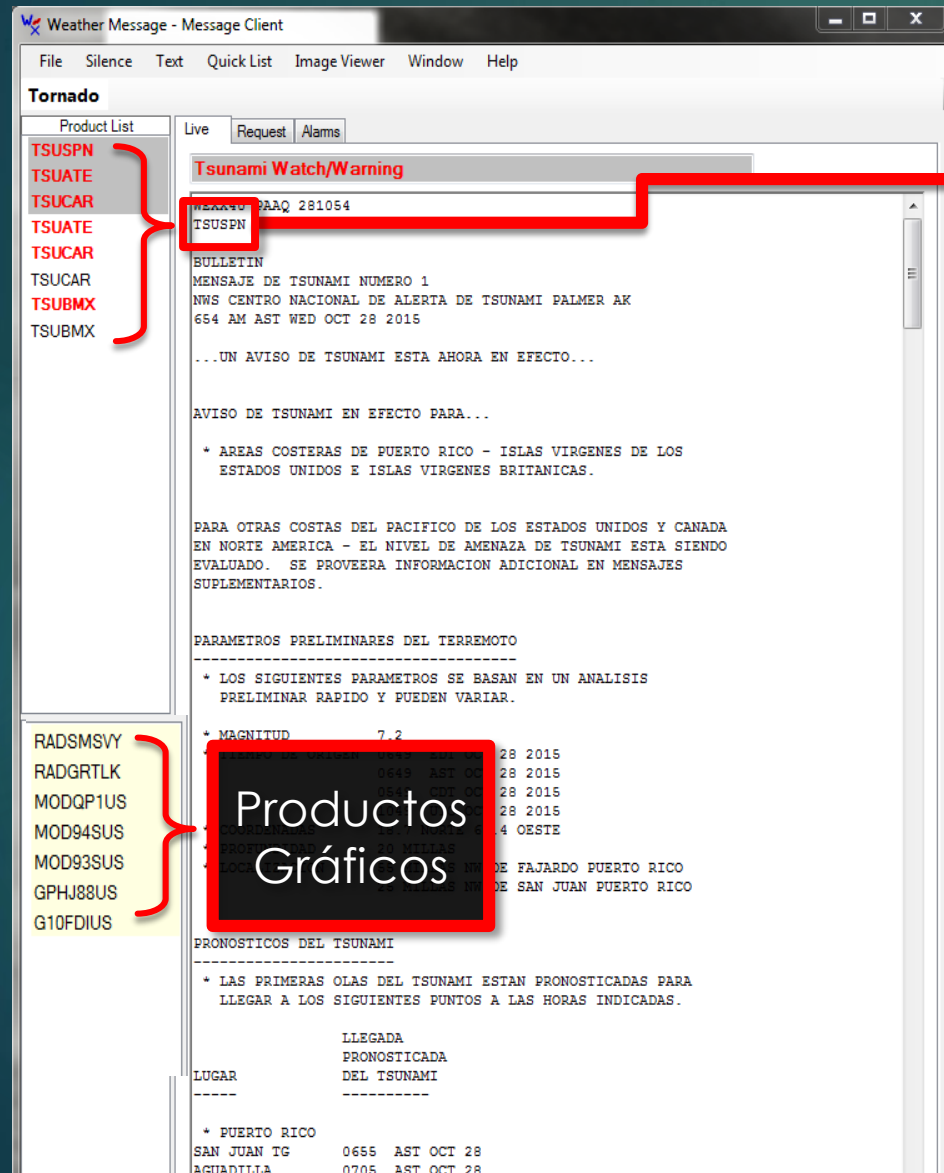






4 | WEATHER MESSAGE CLIENT: PRODUCTOS

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Productos
Gráficos

AWIPS ID		Explicación del Producto
NTWC	PTWC	
TSUAT1	TSUCA1	Vigilancia/Advertencia/Aviso de Tsunami Segmentado
TSUATE	TSUCAR	Vigilancia/Advertencia/Aviso de Tsunami Público
TSUSPN	TSUSPN	Vigilancia/Advertencia/Aviso de Tsunami Público en Español
TIBATE	TIBCAR	Boletín Informativo de Tsunami
TIBSPN	TIBSPN	Boletín Informativo de Tsunami en Español
EQIAT1	EQICAR	Boletín Informativo Sísmico de Tsunami
EQISPN	EQISPN	Boletín Informativo Sísmico de Tsunami en Español

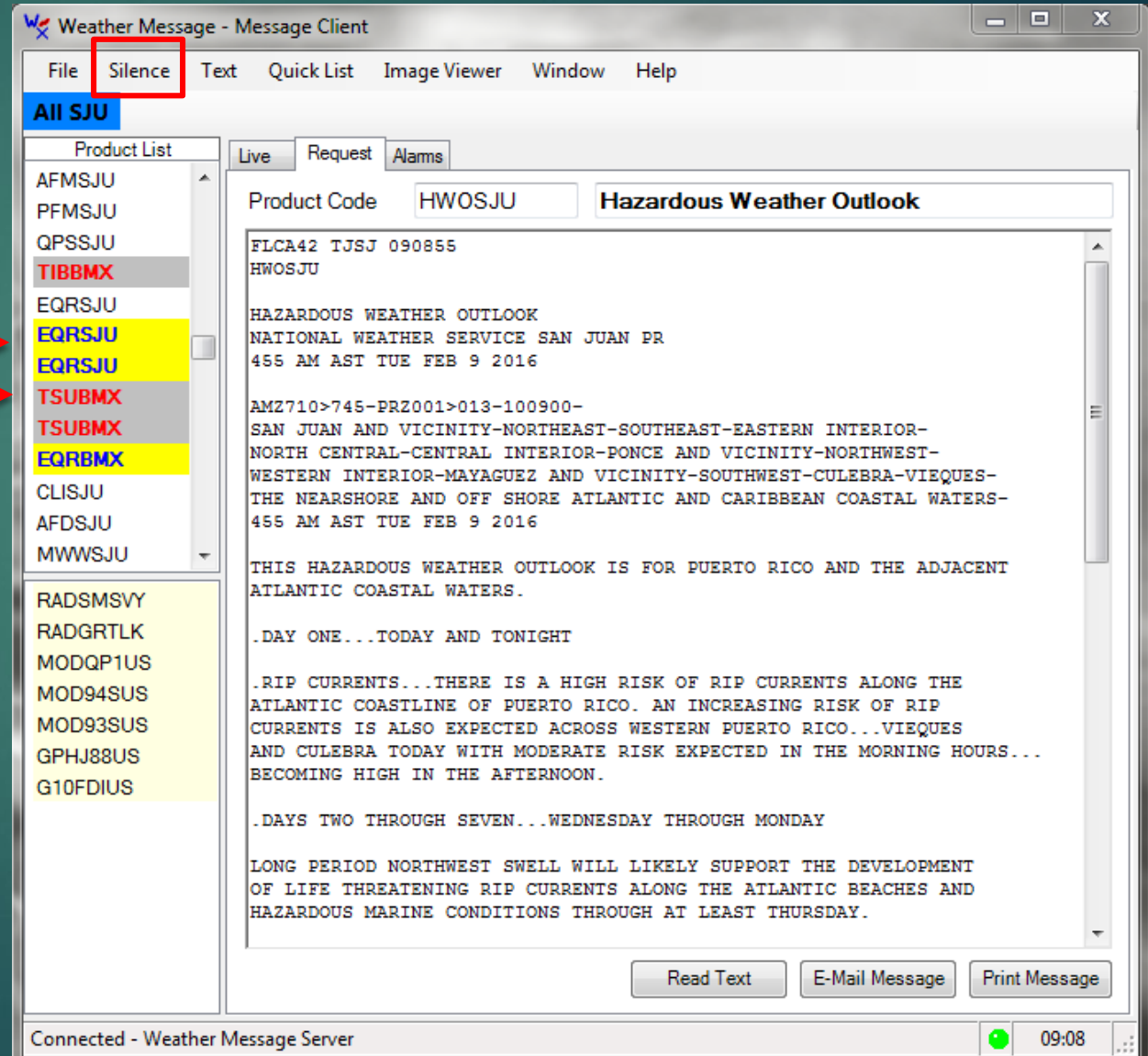
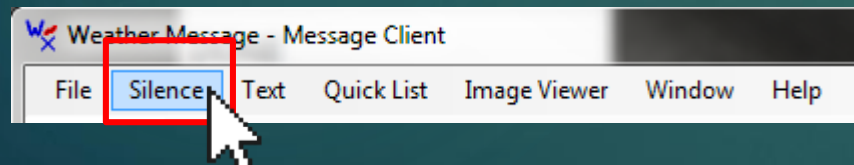
4 | WEATHER MESSAGE CLIENT: PRODUCTOS

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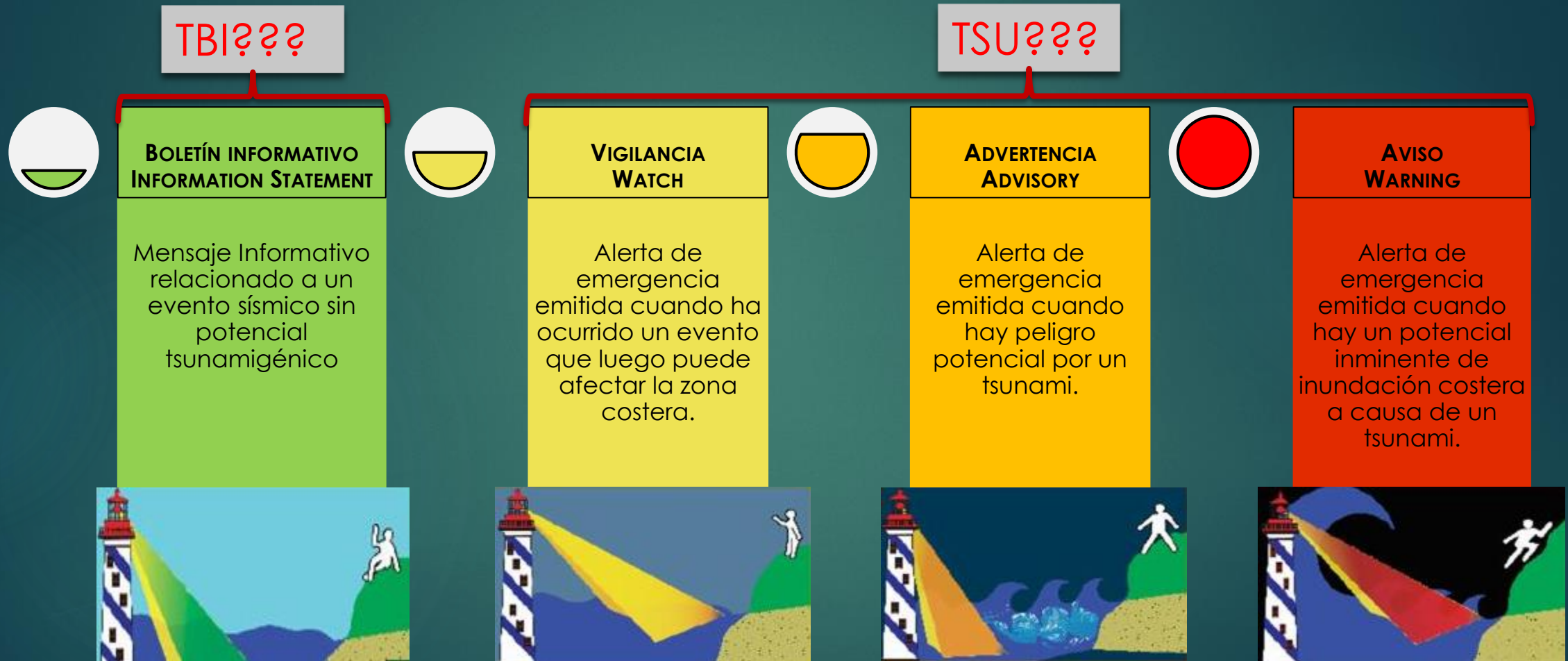
Alarmas de Terremoto

Alarmas de Tsunami



4 | W.M. CLIENT: ALERTAS DE TSUNAMI

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4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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National Tsunami Warning Center (NTWC)

WEXX30 PAAQ 281054 TSUATE	WMO Header AWIPS ID	WEXX40 PAAQ 281054 TSUSPN
BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 1 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 654 AM AST WED OCT 28 2015 ...A TSUNAMI WARNING IS NOW IN EFFECT... TSUNAMI WARNING IN EFFECT FOR... * COASTAL AREAS OF PUERTO RICO - THE U.S. VIRGIN ISLANDS AND THE BRITISH VIRGIN ISLANDS. FOR OTHER US AND CANADIAN COASTS IN THE ATLANTIC AND GULF OF MEXICO - THE LEVEL OF TSUNAMI DANGER IS BEING EVALUATED. FURTHER INFORMATION WILL BE PROVIDED IN SUPPLEMENTARY MESSAGES.		BULLETIN MENSAJE DE TSUNAMI NUMERO 1 NWS CENTRO NACIONAL DE ALERTA DE TSUNAMI PALMER AK 654 AM AST WED OCT 28 2015 ...UN AVISO DE TSUNAMI ESTA AHORA EN EFECTO... AVISO DE TSUNAMI EN EFECTO PARA... * AREAS COSTERAS DE PUERTO RICO - ISLAS VIRGENES DE LOS ESTADOS UNIDOS E ISLAS VIRGENES BRITANICAS. PARA OTRAS COSTAS DEL PACIFICO DE LOS ESTADOS UNIDOS Y CANADA EN NORTE AMERICA - EL NIVEL DE AMENAZA DE TSUNAMI ESTA SIENDO EVALUADO. SE PROVEERA INFORMACION ADICIONAL EN MENSAJES SUPLEMENTARIOS.

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUATE o TSUCAR

FORECASTS OF TSUNAMI ACTIVITY

* THE FIRST WAVES ARE FORECASTED TO ARRIVE AT THE FOLLOWING LOCATIONS AND SPECIFIED TIMES.

SITE	FORECAST START OF OF TSUNAMI
-----	-----
* PUERTO RICO	
SAN JUAN TG	0655 AST OCT 28
AGUADILLA	0705 AST OCT 28
MAYAGUEZ	0715 AST OCT 28
CULEBRA	0730 AST OCT 28
* US VIRGIN ISLANDS	
CHRISTIANSTED	0730 AST OCT 28
LAMESHUR BAY	0735 AST OCT 28
CHARLOTTE AMALIE	0740 AST OCT 28
* BRITISH VIRGIN IS.	
ROADTOWN	0735 AST OCT 28

TSUSPN

PRONOSTICOS DEL TSUNAMI

* LAS PRIMERAS OLAS DEL TSUNAMI ESTAN PRONOSTICADAS PARA LLEGAR A LOS SIGUIENTES PUNTOS A LAS HORAS INDICADAS.

LUGAR	LLEGADA PRONOSTICADA DEL TSUNAMI
-----	-----
* PUERTO RICO	
SAN JUAN TG	0655 AST OCT 28
AGUADILLA	0705 AST OCT 28
MAYAGUEZ	0715 AST OCT 28
CULEBRA	0730 AST OCT 28
* US VIRGIN ISLANDS	
CHRISTIANSTED	0730 AST OCT 28
LAMESHUR BAY	0735 AST OCT 28
CHARLOTTE AMALIE	0740 AST OCT 28
* BRITISH VIRGIN IS.	
ROADTOWN	0735 AST OCT 28

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUATE o TSUCAR

PRELIMINARY EARTHQUAKE PARAMETERS

* THE FOLLOWING PARAMETERS ARE BASED ON A RAPID PRELIMINARY ASSESSMENT AND CHANGES MAY OCCUR.

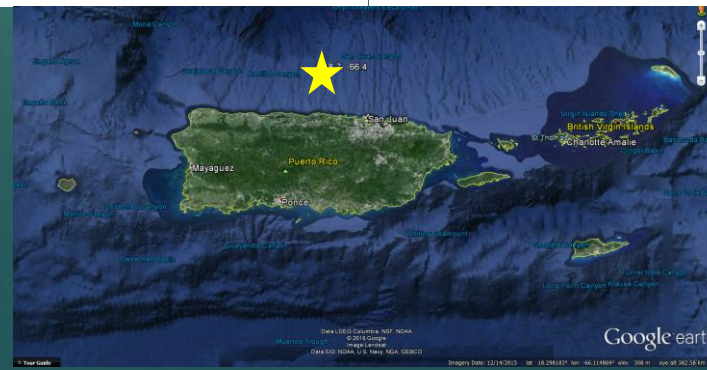
* MAGNITUDE 7.2
* ORIGIN TIME 0649 EDT OCT 28 2015
0649 AST OCT 28 2015
0549 CDT OCT 28 2015
1049 UTC OCT 28 2015
* COORDINATES 18.7 NORTH 66.4 WEST
* DEPTH 20 MILES
* LOCATION 55 MILES NW OF FAJARDO PUERTO RICO
25 MILES NW OF SAN JUAN PUERTO RICO

TSUSPN

PARAMETROS PRELIMINARES DEL TERREMOTO

* LOS SIGUIENTES PARAMETROS SE BASAN EN UN ANALISIS PRELIMINAR RAPIDO Y PUEDEN VARIAR.

* MAGNITUD 7.2
* TIEMPO DE ORIGEN 0649 EDT OCT 28 2015
0649 AST OCT 28 2015
0549 CDT OCT 28 2015
1049 UTC OCT 28 2015
* COORDENADAS 18.7 NORTE 66.4 OESTE
* PROFUNDIDAD 20 MILLAS
* LOCALIZACION 55 MILLAS NW DE FAJARDO PUERTO RICO
25 MILLAS NW DE SAN JUAN PUERTO RICO



4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUATE o TSUCAR

OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

* OBSERVED MAX TSUNAMI HEIGHT IS THE HIGHEST RECORDED WATER LEVEL ABOVE THE TIDE LEVEL UP TO THE TIME OF THIS MESSAGE.

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
SAN JUAN TG PUERTO RICO	0626 AM EDT OCT 28	2.0FT
ARECIBO PUERTO RICO	0241 AM EDT OCT 28	0.3FT
FAJARDO PUERTO RICO	0142 AM EDT OCT 28	0.3FT
CULEBRA PUERTO RICO	0120 AM EDT OCT 28	0.3FT

TSUSPN

OBSERVACIONES DEL TSUNAMI - ACTUALIZADAS

* LA ALTURA MAXIMA OBSERVADA DEL TSUNAMI ES EL NIVEL DE AGUA MAS ALTO REGISTRADO SOBRE EL NIVEL DE LA MAREA HASTA LA EMISION DE ESTE MENSAJE.

LUGAR	HORA DE LA MEDICION	ALTURA MAX OBSERVADA DEL TSUNAMI
SAN JUAN TG PUERTO RICO	0626 AM EDT OCT 28	2.0FT
ARECIBO PUERTO RICO	0241 AM EDT OCT 28	0.3FT
FAJARDO PUERTO RICO	0142 AM EDT OCT 28	0.3FT
CULEBRA PUERTO RICO	0120 AM EDT OCT 28	0.3FT

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUATE o TSUCAR

RECOMMENDED ACTIONS

ACTIONS TO PROTECT HUMAN LIFE AND PROPERTY WILL VARY WITHIN TSUNAMI WARNING AREAS.

IF YOU ARE IN A TSUNAMI WARNING AREA...

- * EVACUATE INLAND OR TO HIGHER GROUND ABOVE AND BEYOND DESIGNATED TSUNAMI HAZARD ZONES OR MOVE TO AN UPPER FLOOR OF A MULTI-STORY BUILDING DEPENDING ON YOUR SITUATION.
- * MOVE OUT OF THE WATER... OFF THE BEACH... AND AWAY FROM HARBORS... MARINAS... BREAKWATERS... BAYS AND INLETS.
- * BE ALERT TO AND FOLLOW INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS BECAUSE THEY MAY HAVE MORE DETAILED OR SPECIFIC INFORMATION FOR YOUR LOCATION.
- * BOAT OPERATORS...
 - * WHERE TIME AND CONDITIONS PERMIT MOVE YOUR BOAT OUT TO SEA TO A DEPTH OF AT LEAST 180 FEET.
 - * IF AT SEA AVOID ENTERING SHALLOW WATER... HARBORS... MARINAS... BAYS... AND INLETS TO AVOID FLOATING AND SUBMERGED DEBRIS AND STRONG CURRENTS.
- * DO NOT GO TO THE SHORE TO OBSERVE THE TSUNAMI.
- * DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

TSUSPN

ACCIONES RECOMENDADAS

LAS ACCIONES PARA PROTEGER LA VIDA Y PROPIEDAD PUEDEN VARIAR DENTRO DE LAS AREAS DE AVISO DE TSUNAMI.

SI USTED ESTA EN UN AREA DE AVISO...

- * DESALOJE TIERRA ADENTRO O A UN LUGAR ALTO FUERA DE LA ZONA DE INUNDACION POR TSUNAMI O MUEVASE A UN PISO ALTO DE UN EDIFICIO MULTIPISO SEGUN SEA SU SITUACION.
- * SALGASE DEL AGUA... DE LA PLAYA Y ALEJESE DE PUERTOS... MARINAS... BAHIAS... ENSENADAS Y ROMPEOLAS.
- * ESTE ALERTA Y SIGA LAS INSTRUCCIONES DE LOS OFICIALES LOCALES DE MANEJO DE EMERGENCIA YA QUE ELLOS PUEDEN TENER INFORMACION MAS DETALLADA O ESPECIFICA PARA SU UBICACION.
- * SI SIENTE UN TERREMOTO FUERTE Y/O PROLONGADO TOME INMEDIATAMENTE ACCIONES DE SEGURIDAD COMO MOVERSE TIERRA ADENTRO Y/O HACIA UN LUGAR ALTO PREFERIBLEMENTE A PIE.
- * OPERADORES DE BOTES...
 - * CUANDO EL TIEMPO Y LAS CONDICIONES LO PERMITAN MUEVA SU BOTE MAR ADENTRO A UNA PROFUNDIDAD DE AL MENOS 180 PIES.
 - * SI ESTA NAVEGANDO EVITE ENTRAR A AGUAS SOMERAS/LLANAS... PUERTOS... MARINAS... BAHIAS... Y ENSENADAS PARA EVITAR CORRIENTES FUERTES Y OBJETOS FLOTANTES O SUMERGIDOS.
- * NO VAYA A LA COSTA PARA OBSERVAR EL TSUNAMI.
- * NO REGRESE A LA COSTA HASTA QUE LOS OFICIALES LOCALES DE MANEJO DE EMERGENCIA LOCAL INDIQUEN QUE ES SEGURO HACERLO.

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUSPN

IMPACTOS

LOS IMPACTOS PUEDEN VARIAR EN DIFERENTES LUGARES DENTRO DE LAS AREAS DE AVISO.

SI USTED ESTA EN UN AREA DE AVISO...

- * ES POSIBLE UN TSUNAMI CON OLAS DESTRUCTIVAS Y CORRIENTES FUERTES.
- * POSIBLES INUNDACIONES COSTERAS REPETIDAS CUANDO LAS OLAS LLEGUEN A LA COSTA... SE MUEVEN TIERRA ADENTRO... Y RETROCEDEN AL OCEANO.
- * OLAS FUERTES E INUSUALES... CORRIENTES E INUNDACIONES PUEDEN AHOGAR O HERIR PERSONAS Y DEBILITAR O DESTRUIR ESTRUCTURAS EN TIERRA Y DENTRO DEL AGUA.
- * AGUA CON OBJETOS FLOTANTES O SUMERGIDOS PUEDEN HERIR O CAUSAR LA MUERTE A PERSONAS O DESTRUIR EDIFICIOS Y PUENTES.
- * CORRIENTES Y OLAS FUERTES E INUSUALES EN PUERTOS... MARINAS... BAHIAS... Y ENSENADAS PUEDEN SER ESPECIALMENTE DESTRUCTIVAS.

- * ALGUNOS IMPACTOS PUEDEN CONTINUAR POR MUCHAS HORAS HASTA DIAS LUEGO DE LA LLEGADA DE LA PRIMERA OLA.
- * LA PRIMERA OLA PUEDE NO SER LA MAS GRANDE LAS OLAS POSTERIORES SI.
- * CADA OLA PUEDE DURAR DE 5 A 45 MINUTOS ENTRE SU EMBATE Y RETROCESO.
- * COSTAS CON FRENTE EN TODAS LAS DIRECCIONES PUEDEN ESTAR EN PELIGRO PORQUE LAS OLAS PUEDEN DAR LA VUELTA A ISLAS Y ENTRAR A BAHIAS.
- * MOVIMIENTO FUERTE Y/O PROLONGADO DEL SUELO INDICA QUE UN TERREMOTO HA OCURRIDO UN TSUNAMI PUEDE HABER SIDO GENERADO Y SU LLEGADA INMINENTE.
- * UN RAPIDO RETROCESO DE LA LINEA DE COSTA... OLAS Y SONIDOS INUSUALES... Y FUERTES CORRIENTES SON SENALES DE UN TSUNAMI.
- * EL TSUNAMI PUEDE APARECER COMO AGUA MOVIENDOSE RAPIDAMENTE HACIA MAR ADENTRO... UNA MAREA SUAVE QUE SE ELEVA RAPIDAMENTE SIN OLAS ROMPIENTES... COMO UNA SERIE DE OLAS ROMPIENTES... O UNA PARED DE AGUA ESPUMOSA.

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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TSUATE ○ TSUCAR

ADDITIONAL INFORMATION AND NEXT UPDATE

- * REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- * CARIBBEAN COASTAL REGIONS OUTSIDE PUERTO RICO... U.S. VIRGIN ISLANDS AND BRITISH VIRGIN ISLANDS SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES AT PTWC.WEATHER.GOV.
- * THIS MESSAGE WILL BE UPDATED WITHIN 30 MINUTES.

\$\$

TSUSPN

INFORMACION ADICIONAL E PROXIMA ACTUALIZACION

- * PARA ACCEDER A INFORMACION ADICIONAL CONSULTE EL SITIO DE INTERNET NTWC.ARH.NOAA.GOV.
- * REGIONES COSTERAS DEL CARIBE FUERA DE PUERTO RICO... ISLAS VIRGENES DE LOS ESTADOS UNIDOS E ISLAS VIRGENES BRITANICAS DEBEN CONSULTAR LOS MENSAJES EMITIDOS POR EL CENTRO DE ALERTA DE TSUNAMI DEL PACIFICO EN SU SITIO DE INTERNET PTWC.WEATHER.GOV.
- * ESTE MENSAJE SERA ACTUALIZADO EN 30 MINUTOS.

\$\$

4 | W.M. CLIENT: PRODUCTOS TSUNAMI

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Pacific Tsunami Warning Center (PTWC)

WECA40 PHEB 171405

TSUCAR

TSUNAMI MESSAGE NUMBER 1
NWS PACIFIC TSUNAMI WARNING CENTER EWA BEACH HI
1005 AM AST THU MAR 17 2016

...A TSUNAMI WARNING IS NOW IN EFFECT...

WECA50 PHEB 171405

TSUSPN

MENSAJE DE TSUNAMI NUMERO 1
SMN CENTRO DE ALERTAS DE TSUNAMI DEL PACIFICO EWA BEACH HI
1005 AM AST THU MAR 17 2016

...UNA ALARMA DE TSUNAMI ESTA AHORA EN EFECTO...

4 | W.M. CLIENT: PRODUCTOS SÍSMICOS

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EQIAT1
O
EQICA1

SEXX60 PAAQ 280930
EQIAT1

TSUNAMI SEISMIC INFORMATION STATEMENT
NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK
530 AM EDT WED OCT 28 2015

...THIS IS A TSUNAMI INFORMATION STATEMENT...

EVALUATION

* AN EARTHQUAKE HAS OCCURRED - THERE IS NO TSUNAMI DANGER.

PRELIMINARY EARTHQUAKE PARAMETERS

* THE FOLLOWING PARAMETERS ARE BASED ON A RAPID PRELIMINARY ASSESSMENT AND CHANGES MAY OCCUR.

* MAGNITUDE 4.7
* ORIGIN TIME 0528 EDT OCT 28 2015
0428 CDT OCT 28 2015
0528 AST OCT 28 2015
0928 UTC OCT 28 2015
* COORDINATES 42.2 NORTH 70.2 WEST
* DEPTH 4 MILES
* LOCATION 65 MILES N OF NANTUCKET MASSACHUSETTS
45 MILES SE OF BOSTON MASSACHUSETTS

ADDITIONAL INFORMATION AND NEXT UPDATE

* THE EARTHQUAKE PARAMETERS ARE BASED ON PRELIMINARY INFORMATION.

* FURTHER INFORMATION WILL BE ISSUED BY THE UNITED STATES GEOLOGICAL SURVEY - EARTHQUAKE.USGS.GOV - OR THE APPROPRIATE REGIONAL SEISMIC NETWORK.

* THIS WILL BE THE ONLY U.S. NATIONAL TSUNAMI WARNING CENTER MESSAGE ISSUED FOR THIS EVENT.

\$ \$|

SEXX70 PAAQ 280930
EQISPN

BOLETIN INFORMATIVO SISMICO DE TSUNAMI
NWS CENTRO NACIONAL DE ALERTA DE TSUNAMI PALMER AK
530 AM EDT WED OCT 28 2015

...ESTE ES UN BOLETIN INFORMATIVO DE TSUNAMI...

EVALUACION

* HA OCURRIDO UN TERREMOTO - NO HAY PELIGRO DE TSUNAMI.

PARAMETROS PRELIMINARES DEL TERREMOTO

* LOS SIGUIENTES PARAMETROS SE BASAN EN UN ANALISIS PRELIMINAR RAPIDO Y PUEDEN VARIAR.

* MAGNITUD 4.7
* TIEMPO DE ORIGEN 0528 EDT OCT 28 2015
0428 CDT OCT 28 2015
0528 AST OCT 28 2015
0928 UTC OCT 28 2015
* COORDENADAS 42.2 NORTE 70.2 OESTE
* PROFUNDIDAD 4 MILLAS
* LOCALIZACION 65 MILLAS N DE NANTUCKET MASSACHUSETTS
45 MILLAS SE DE BOSTON MASSACHUSETTS

INFORMACION ADICIONAL E PROXIMA ACTUALIZACION

* LOS PARAMETROS DEL TERREMOTO ESTAN BASADOS EN INFORMACION PRELIMINAR.

* INFORMACION ADICIONAL SERA EMITIDA POR EL SERVICIO GEOLOGICO DE LOS ESTADOS UNIDOS - EARTHQUAKE.USGS.GOV - O LA CORRESPONDIENTE RED SISMICA REGIONAL.

* ESTE SERA EL UNICO MENSAJE PROVENIENTE DEL CENTRO NACIONAL DE ALERTA DE TSUNAMI DE LOS ESTADOS UNIDOS PARA ESTE EVENTO.

\$ \$

EQISPN

4 | WEATHER MESSAGE SERVER: PRODUCTOS

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¿Dónde están configurados los mensajes que llegarán?

Weather Message Server → File → Setup

The image shows two overlapping windows from the Weather Message Server 4.0 application. The background window is the main application interface, and the foreground window is the 'Weather Message Setup' dialog box.

Weather Message Server - 4.0

- File Menu:** Setup, View Connections, Clear Errors, View Logfile, View Email Log, View Pager Log, View Fax Log, FTP Ingest, Show Ingest, Exit.
- Status:** TCP/IP, Connection Closed: 208.64.252.230, Email, Sent Email to Group ANALISTAS-ALL, Fax, Loaded Settings, Page, Loaded Settings, Image, Loaded Settings, X10.
- Archive / FTP:** Receive File Error Connection failed: A connectio, Print.
- Processed:** 3238/0
- Message Clients:** 2
- Alarm File:** 1
- Map Clients:** 2

Weather Message Setup

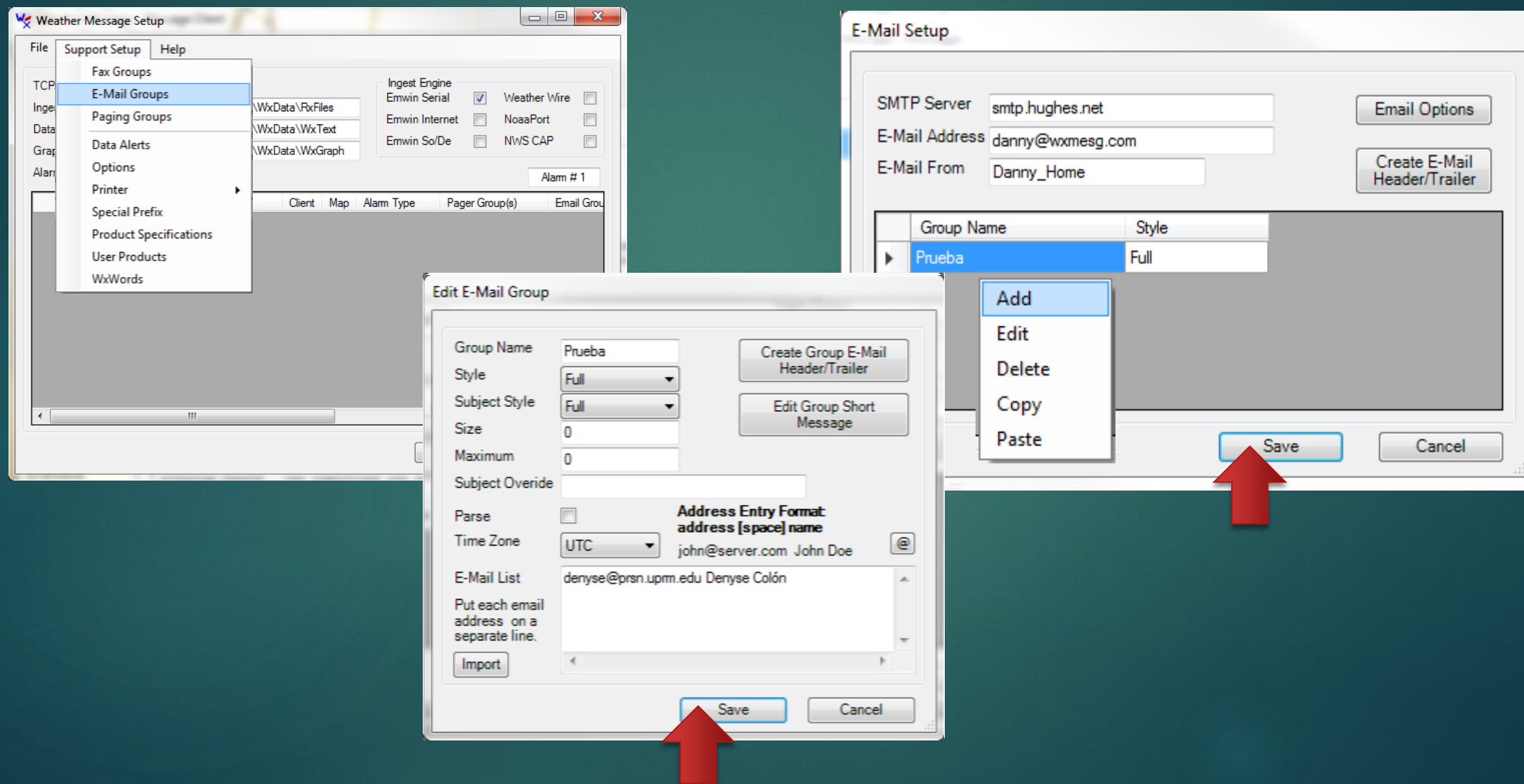
- TCP/IP Port:** 9501
- Ingest Path:** C:\Program Files\WxMesgNet\WxData\RxFiles
- Data Path:** C:\Program Files\WxMesgNet\WxData\WxText
- Graphics Path:** C:\Program Files\WxMesgNet\WxData\WxGraph
- Alarm File #:** 1
- Ingest Engine:** Emwin Serial (checked), Emwin Internet (checked), Emwin So/De (unchecked).
- Weather Wire:** (unchecked)
- NoaaPort:** (unchecked)
- NWS CAP:** (unchecked)
- Alarm # 1:**

Product	State	County(s)	Client	Map	Alarm Type	Pager Group(s)	Email Group
??????			No	No	0	None	None
???SJU			Yes	Yes	0	None	None
AWSSJU			Yes	Yes	0	None	None
EQI???			Yes	Yes	4	None	Prueba- De
EQR???			Yes	Yes	4	None	Prueba- De
EQW???			Yes	Yes	4	None	Prueba- De
TIB???			Yes	Yes	3	None	Prueba- De
TMA???			Yes	Yes	0	None	Prueba- De
TSM???			Yes	Yes	3	None	Prueba- De
TST???			Yes	No	3	None	Prueba- De
TSU???			Yes	Yes	3	None	Prueba- De
EQRSJU			Yes	Yes	4	None	None
RWSSPN			Yes	Yes	0	None	None

Save Exit

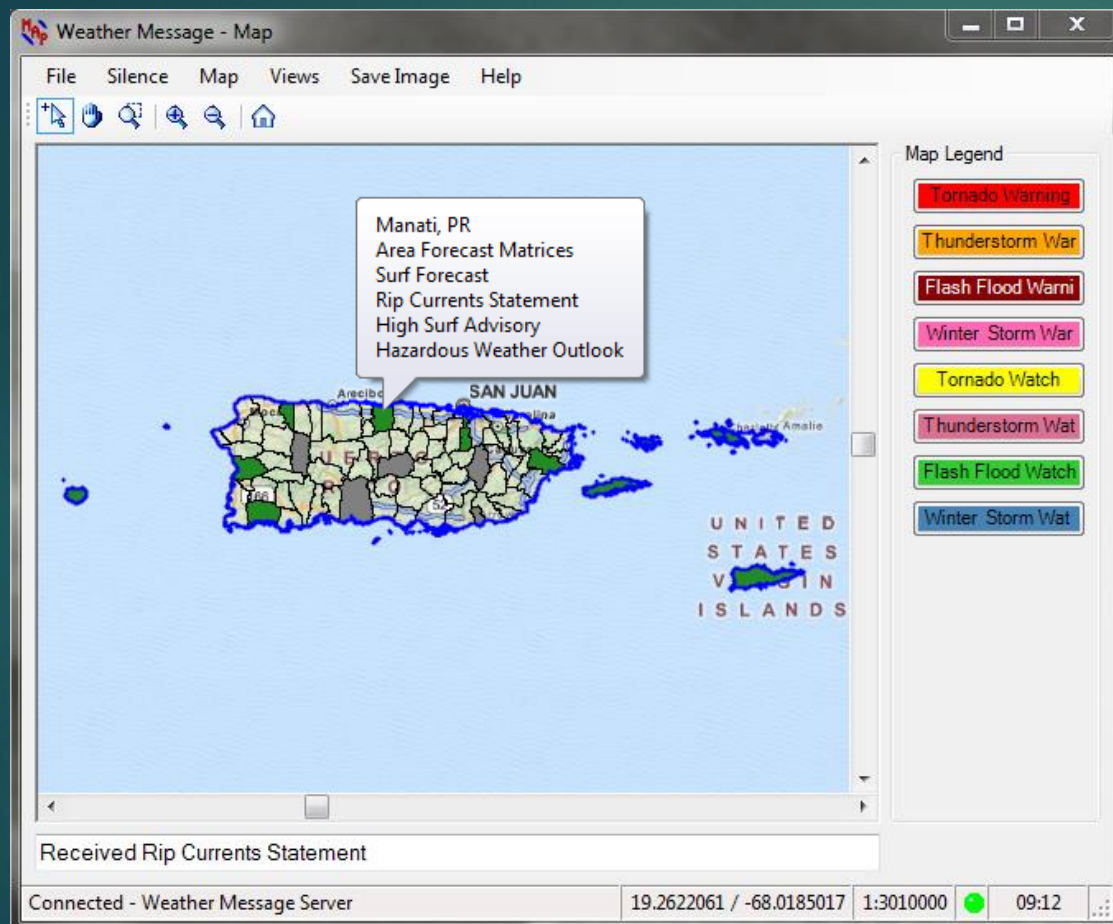
4 | WEATHER MESSAGE SERVER: EMAIL GROUP

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4 | WEATHER MESSAGE MAP

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Weather Message Text - North Central, PR

FLCA42 TJSJ 100917
HWOSJU

HAZARDOUS WEATHER OUTLOOK
NATIONAL WEATHER SERVICE SAN JUAN PR
517 AM AST WED FEB 10 2016

AMZ710>745-PRZ001>013-110930-
SAN JUAN AND VICINITY-NORTHEAST-SOUTHEAST-EASTERN INTERIOR-
NORTH CENTRAL-CENTRAL INTERIOR-PONCE AND VICINITY-NORTHWEST-
WESTERN INTERIOR-MAYAGUEZ AND VICINITY-SOUTHWEST-CULEBRA-VIEQUES-
THE NEARSHORE AND OFF SHORE ATLANTIC AND CARIBBEAN COASTAL WATERS-
517 AM AST WED FEB 10 2016

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PUERTO RICO AND THE ADJACENT
ATLANTIC COASTAL WATERS.

.DAY ONE...TODAY AND TONIGHT

.WAVES...NORTHERLY SWELL BETWEEN 5 AND 8 FEET WITH OCCASIONAL
SEAS UP TO 10 FEET IS EXPECTED ACROSS THE ATLANTIC WATERS AND
LOCAL PASSAGES.

.RIP CURRENTS...THERE IS A MODERATE TO HIGH RISK OF RIP CURRENTS
ACROSS MUCH OF THE NORTH FACING BEACHES OF THE ISLANDS. PLEASE
REFER TO LATEST SURF ZONE FORECAST (SRFSJU) FOR MORE INFORMATION.

.DAYS TWO THROUGH SEVEN...THURSDAY THROUGH TUESDAY

LONG PERIOD NORTHERLY SWELL WILL CONTINUE TO SUPPORT THE
DEVELOPMENT OF LIFE THREATENING RIP CURRENTS ALONG THE ATLANTIC
BEACHES. HAZARDOUS SEAS WILL CONTINUE ACROSS THE ATLANTIC WATERS
DUE TO SUBSIDING NORTHERLY SWELL.

.SPOTTER INFORMATION STATEMENT...

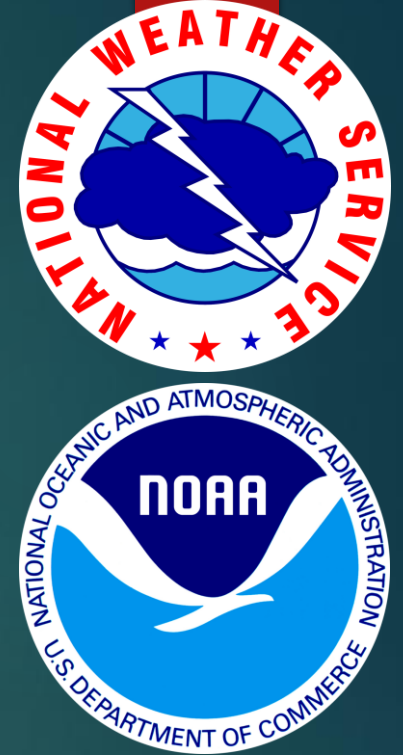
WIDESPREAD SPOTTER ACTIVATION IS NOT ANTICIPATED, HOWEVER INDIVIDUAL
SPOTTER ARE ENCOURAGED TO REPORT RIP CURRENTS TO THE NATIONAL

Zoom to County Read Text E-Mail Message Print Message Close

| FUTURO DEL EMWIN

- ▶ Lanzamiento del nuevo satélite NOAA GOES:
13 de Octubre del 2016
- ▶ El nuevo satélite requiere cambios de hardware y software.
- ▶ Para el 2017 decidirán que estación reemplazará el nuevo satélite.

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| ¿Preguntas?

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