

# EMWIN User Training

For Colorado Front Range

September, 2007



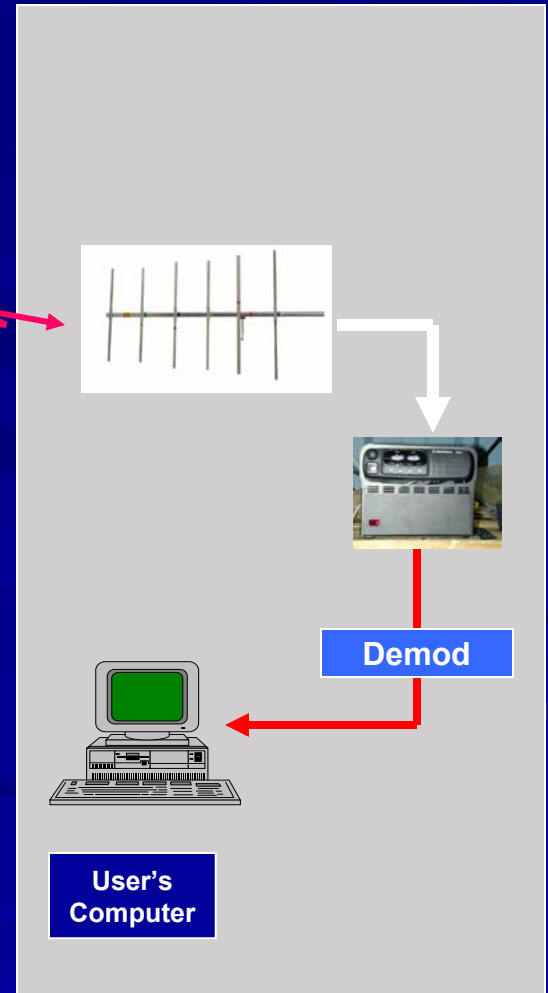
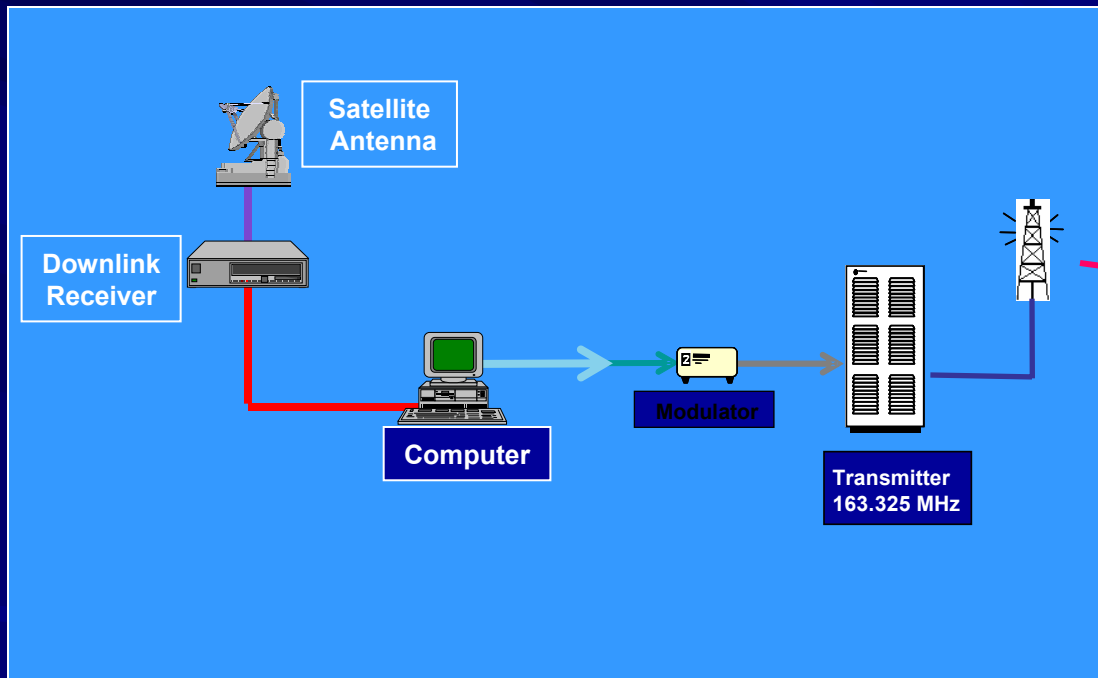
# Agenda

- 1 p.m.            **Getting Started – “SOME ASSEMBLY REQUIRED”**
  - Antenna
  - Radio equipment
  - RealEMWIN Software installation
  
- 2:30 p.m.        **Basic features of RealEMWIN**
  
- 3:00 p.m.        **BREAK**
  
- 3:15 p.m.        **Features of RealEMWIN – continued**
  - Advanced features
  - Other Software available on the market
  - EMWIN Denver web page and message insertion
  
- 4:00 p.m.        *Hands on use of RealEMWIN software*
  
- 4:30 p.m.        *Wrap Up*

# Simplified EMWIN Denver Rebroadcast System Diagram

Adams County

Remote Receiver sites



# Getting Started

■ **SOME ASSEMBLY REQUIRED**



# SECTION ONE

Antenna Assembly and installation



# Antenna Assembly

1) Unpack and assemble per instructions supplied with antenna kit.

Assemble elements to mast, being careful to match colors



# Antenna Installation

- 3) Before mounting antenna, use Figure 1 and a compass to identify the approximate direction from your location to the transmitter site (the Cherokee Power Plant near Commerce City).

**CAUTION:** antenna installation should be performed by an qualified radio technician or electrician. Keep antenna away from metal objects and power lines.

( See pictures in following pages for details)

- 4) Mount antenna on 1 ½” to 2 ½” pipe mast, at least 10 feet above ground level. (Keep antenna away for metal objects and power lines.) Aim antenna toward transmitter site.
- 5) Connect 50 foot coaxial cable to the antenna connector. Waterproof the connection by wrapping with electrical tape.

Use this map to estimate compass heading  
For alignment of your receiver antenna to point  
At the Cherokee Power Plant transmitter site

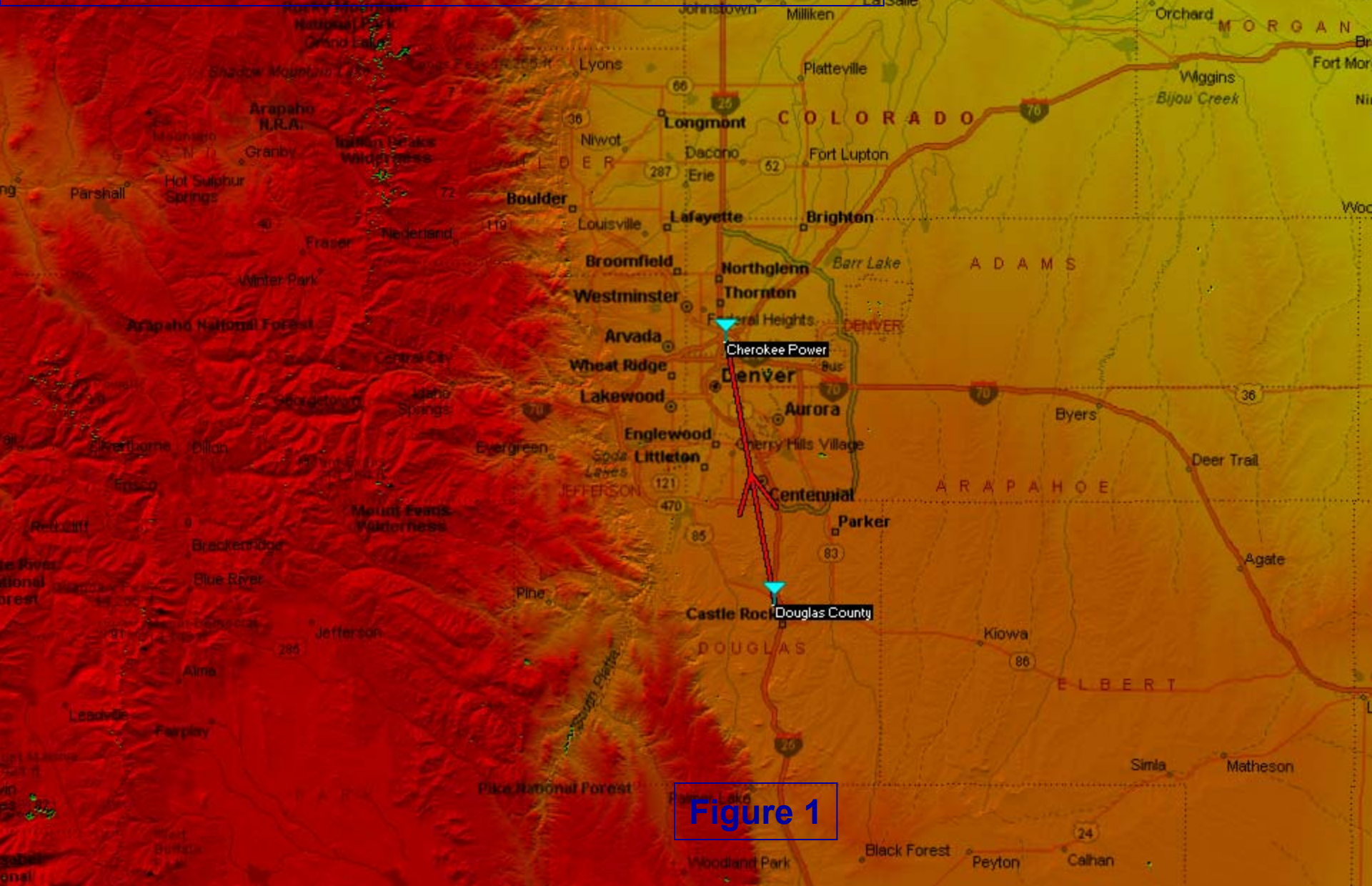


Figure 1

# Attach antenna to mast

Mounting bracket



Attach mounting bracket to customer - provided 1 ½" to 2 ½" vertical pipe mast using large U-bolts



Attach antenna mast to mounting Bracket with smaller U-bolts provided

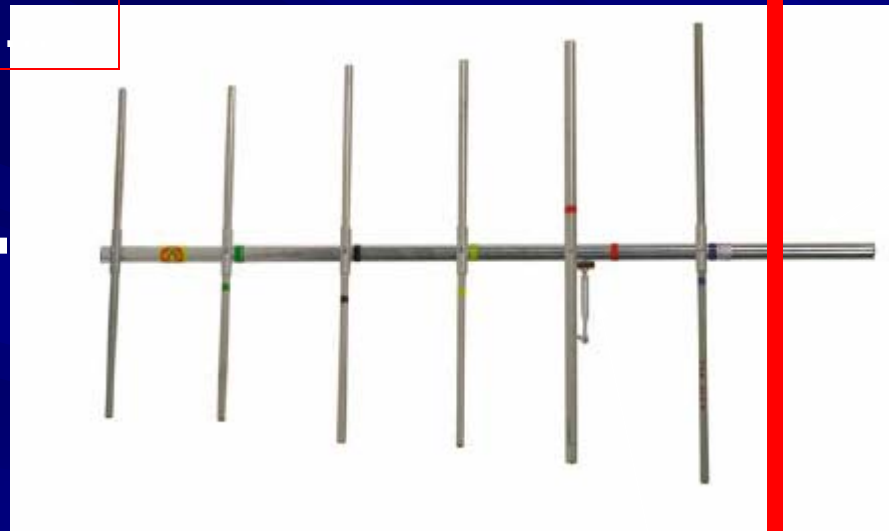
# Antenna Alignment

Antenna is directional.

Aim in direction of  
arrow as shown.

Vertical pipe mast

Antenna  
Mast



“gamma” Matching element

Install antenna with this pointed  
downward – as shown

Remove coaxial cables and lightning arrestor from boxes.



# Connect coaxial cable to antenna



- a) Attach cable to antenna
- b) Tighten connector
- c) Wrap connection with Weather-proof tape\* to protect from moisture

\*such as 3M product Scotch 70  
Silicone rubber tape

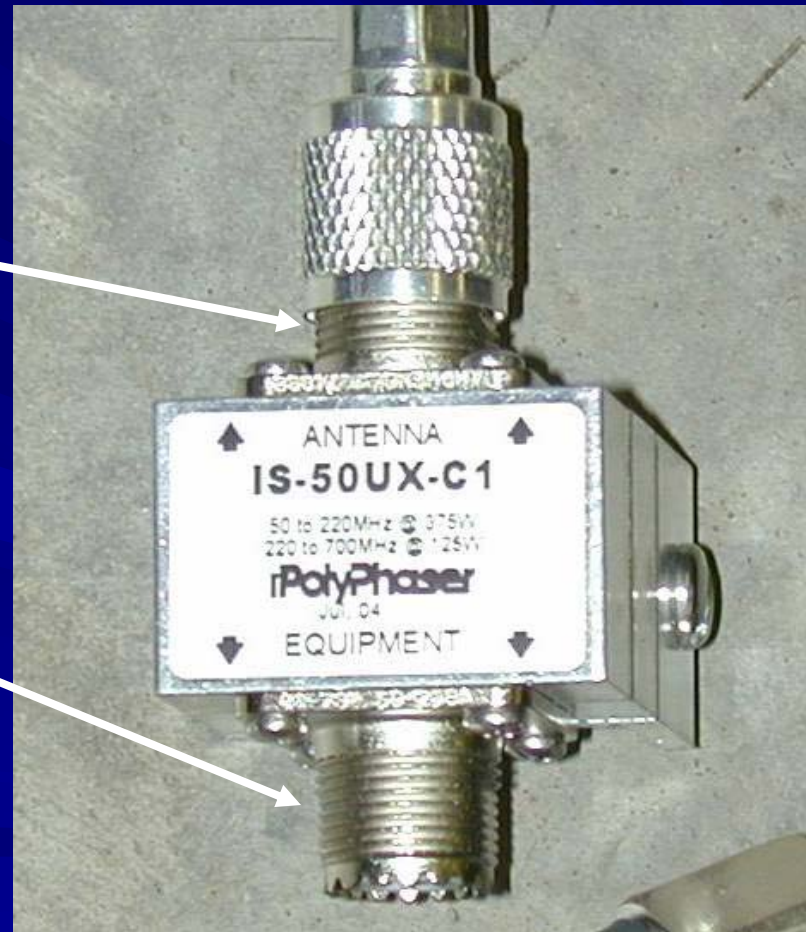
# Antenna Installation

- 6) Route coaxial cable to radio unit. Seal any openings in the building walls or roof with caulk or other sealant.
- 7) Install lightning arrestor on other end of 50 foot coaxial cable. See picture.
- 8) Connect ground wire from AC outlet ground to lightning arrestor.
- 9) Attach 3-foot jumper cable to lightning arrestor “equipment” connector

# Note markings for Proper connection Of coaxial cables when installing lightning arrestor

Antenna cable  
connection

Connect 3 foot  
Jumper cable  
to radio here



# SECTION TWO

Radio installation



# Receiver Hardware Installation

1) Remove all items from packing material.

AC Line Cord

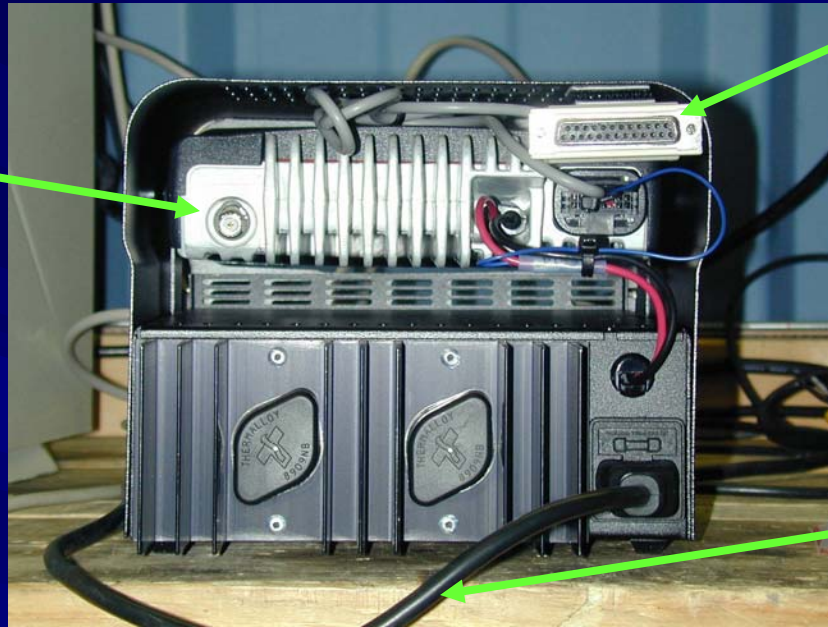
Serial Cable



Radio and power supply in packing box

- 2) Place radio and power supply unit on work surface. Turn unit so rear of radio is visible.

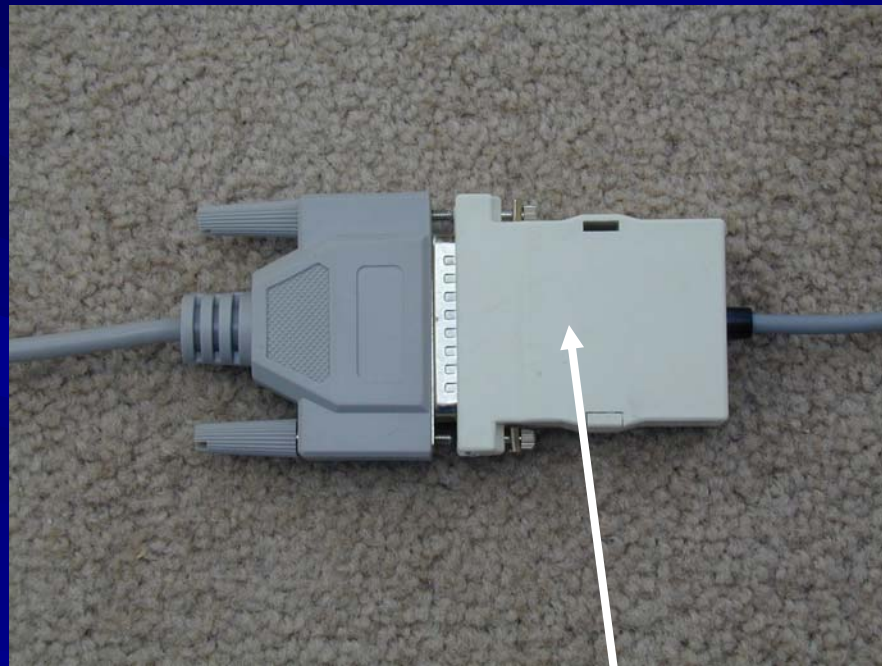
Antenna  
Connector



Demodulator

AC Line Cord

3) Connect large end of serial cable (25 pin connector) to demodulator.



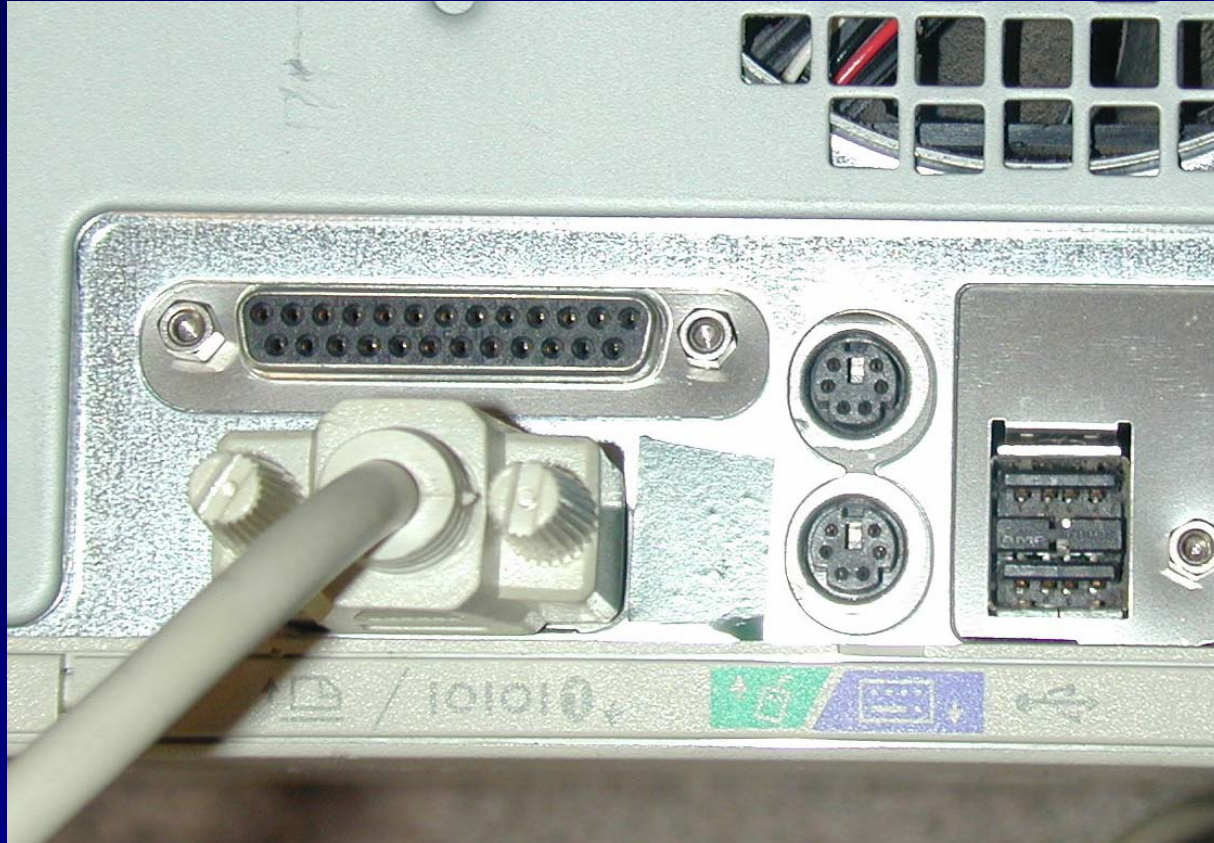
Demodulator

Connect 3-foot jumper coaxial cable from lightning arrestor to antenna connector.

Attach AC line cord to power supply.



Connect 9 pin connector ( small end) of serial cable to your pc's COM port 1.



Turn unit around so front of radio is visible.

Plug in AC line cord to wall outlet.

Turn on power supply. (Red switch at lower left front of power supply.)

Power Switch



Power Supply

Select "1" on the radio.

Red LED channel indicator over "1" button will light.

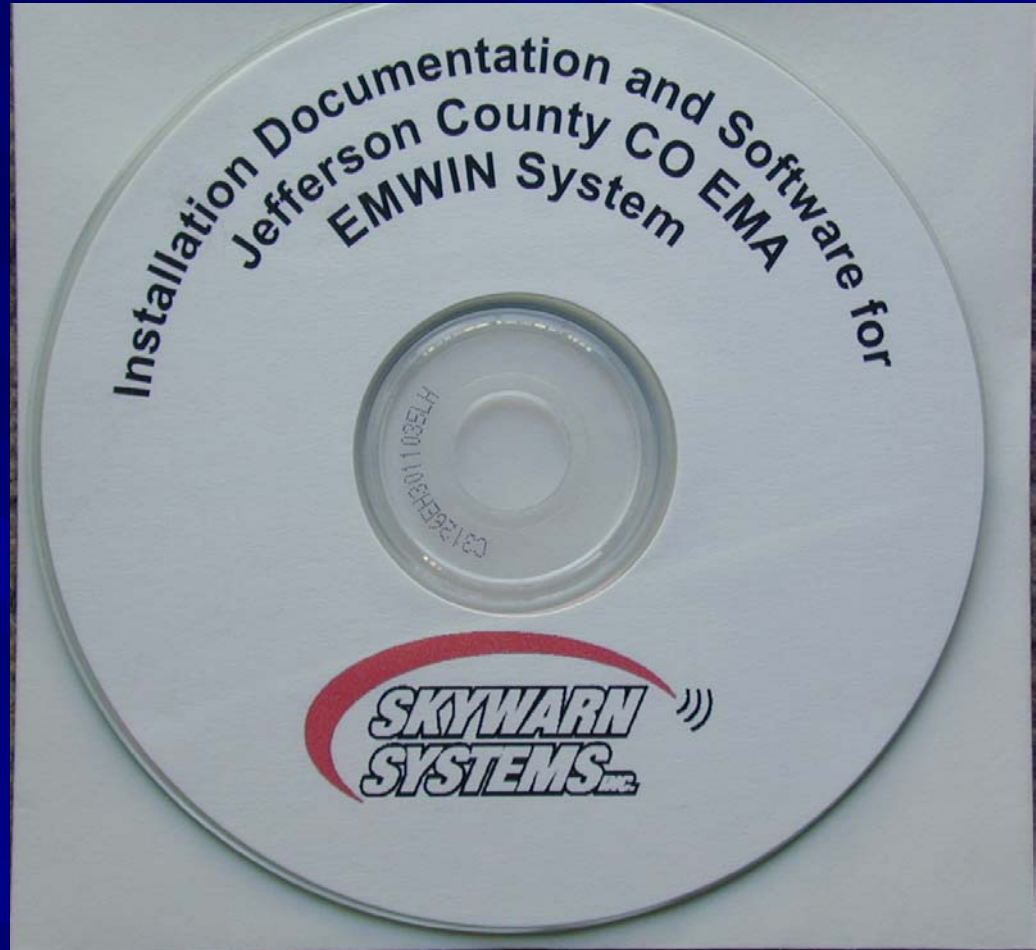


Channel Indicator

"F1" button

Power Supply

# Software CD



# SECTION THREE

Software installation



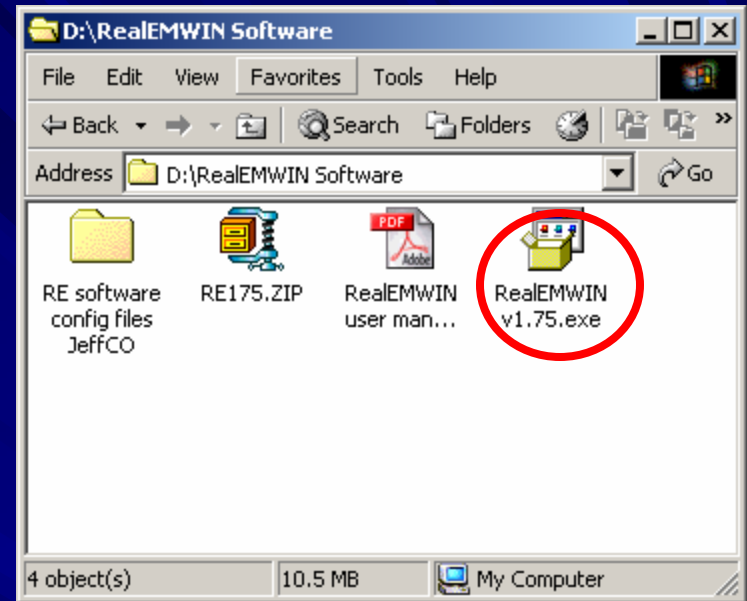
# Initial Setup

- 1) Open CD to see contents.
- 2) Select “RealEMWIN Software” folder



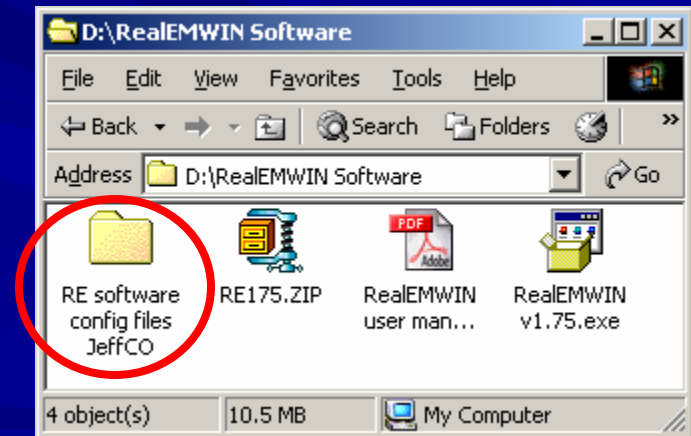
3) Double click RE175.exe, and follow installation instructions....

(Select “Next” or “Yes” to step through the default installation.)

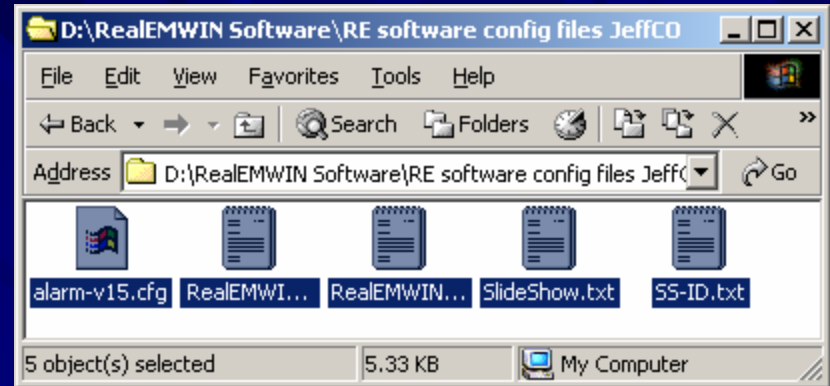


4) When asked to restart the computer, select: “No, I will restart later”

5) Open the “RE software config files JeffCO” folder



**6) Select all files in the folder, and copy them.**



**7) Paste them to the following folder:**

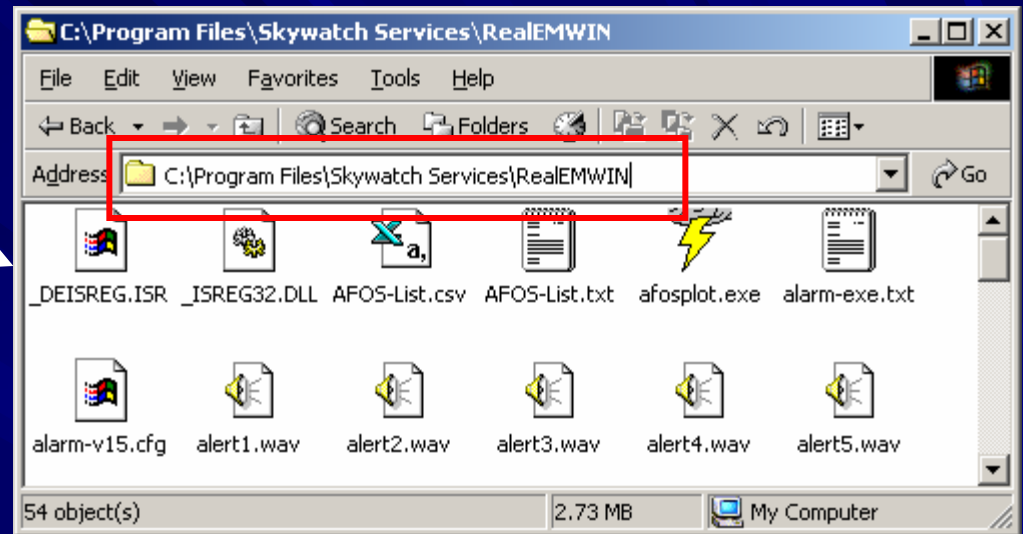
**“C:\ Program Files\Skywatch Services\RealEMWIN”**

**NOTE: Updated files are available on the EMWIN website <http://emwin.udfcd.org>**

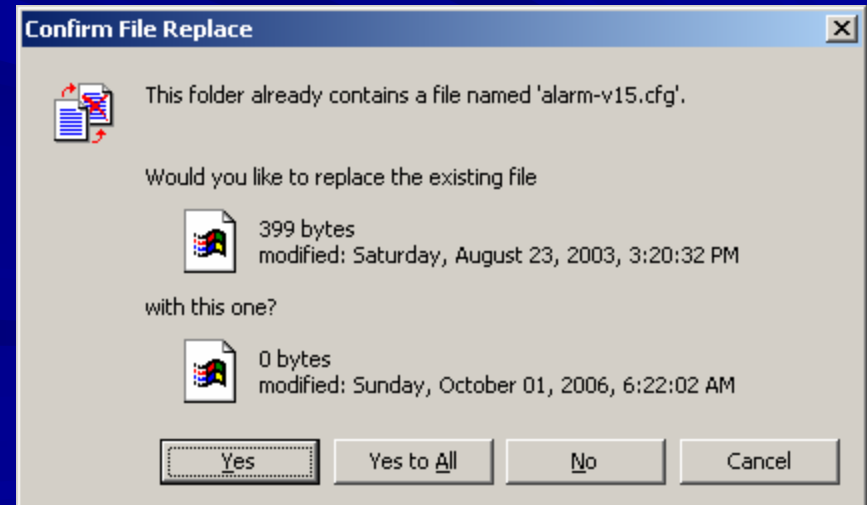
**Select “Download RealEMWIN Configuration files”**



(Paste files here:)



7) When asked if you would like to replace the existing file, select “Yes to All”

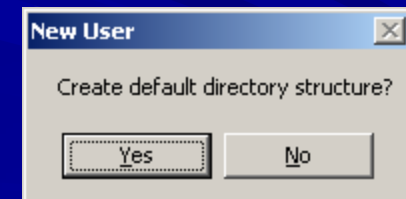


8) Remove CD from drive, and restart computer.

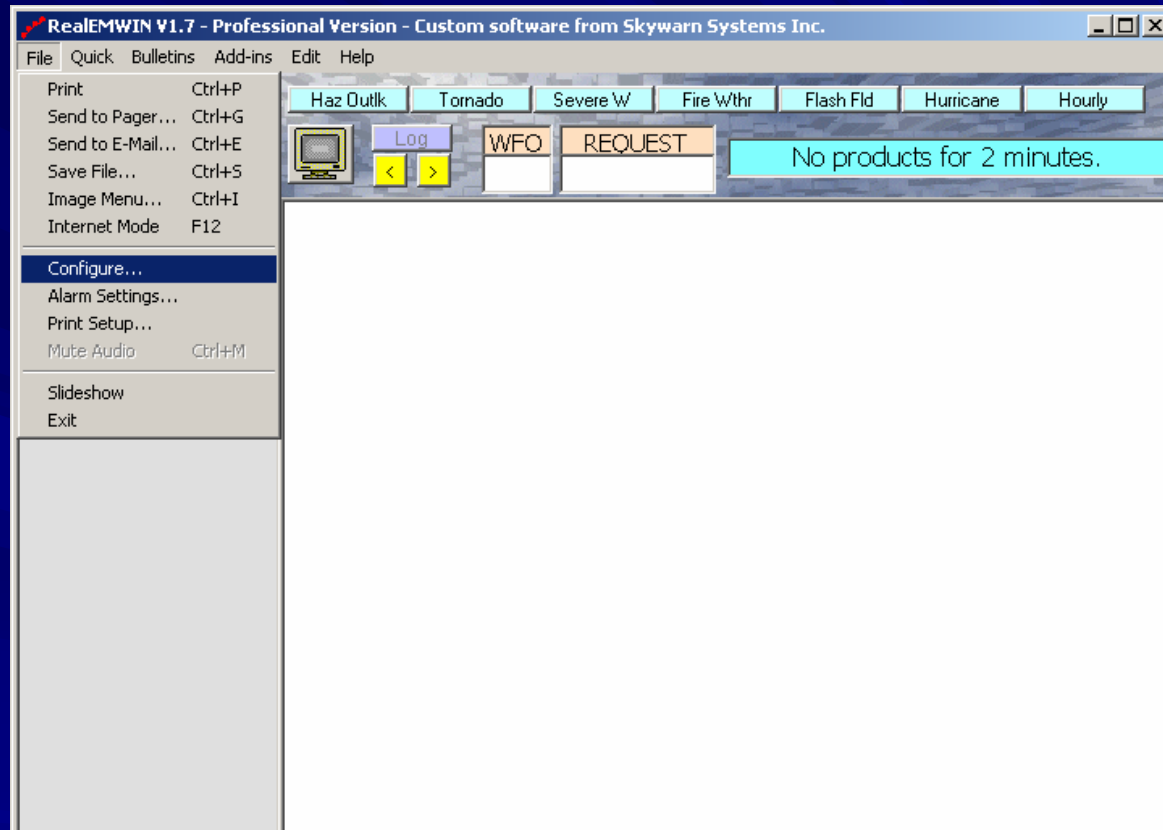


9) When computer is ready, Start RealEMWIN.

10) Select “Yes” when asked to “create default directory structure”



# 11) When completed, select “File” then “Configure”



12) Set / Verify the following values in the configuration window:

a) Standalone operational mode

b) Comm Port 1 and Baud 9600 (verify Comm Port with IT if unsure)

c) Enter “DEN” and “BOU” in the Local WFO boxes, and clear the remaining box.

d) Check the METAR box, and type in “KDEN”

e) Click on “SAVE”.

The screenshot shows the 'Configuration' window with the following settings:

- Operational Mode:**  Standalone,  Network,  Internet Feed
- Comm Port:** 1
- Baud:** 9600
- Text:** c:\Weather\EMWIN\Data\
- Images:** c:\Weather\EMWIN\Images\
- Hourly:** c:\Weather\EMWIN\HourlyWX\
- Data-In:** C:\Program Files\Skywatch Services\Real
- Custom:** c:\Weather\EMWIN\Archive\
- WXPLOT:** [Empty]
- Local WFO's:** DEN, BOU, [Empty]
- Purge Time:** 12
- # Prods:** 3
- Audio:**  Unlimited,  Restrict,  Once
- US:**  **N. America:**  **Pacific:**
- E-Mail:**  Compress Bulletins,  Expand Headers
- Server:** enter.smtp.here.com
- Personal:** from@where
- Idle Alert:**  E-Mail,  Pager,  I-Net,  Internet,  RCM Unzip,  Bulletin Descriptions
- METAR:**  METAR,  Reverse
- Delay:** 3
- Input Fields:** [Empty],  METAR, KDEN, [Empty]
- Buttons:** Save, Exit

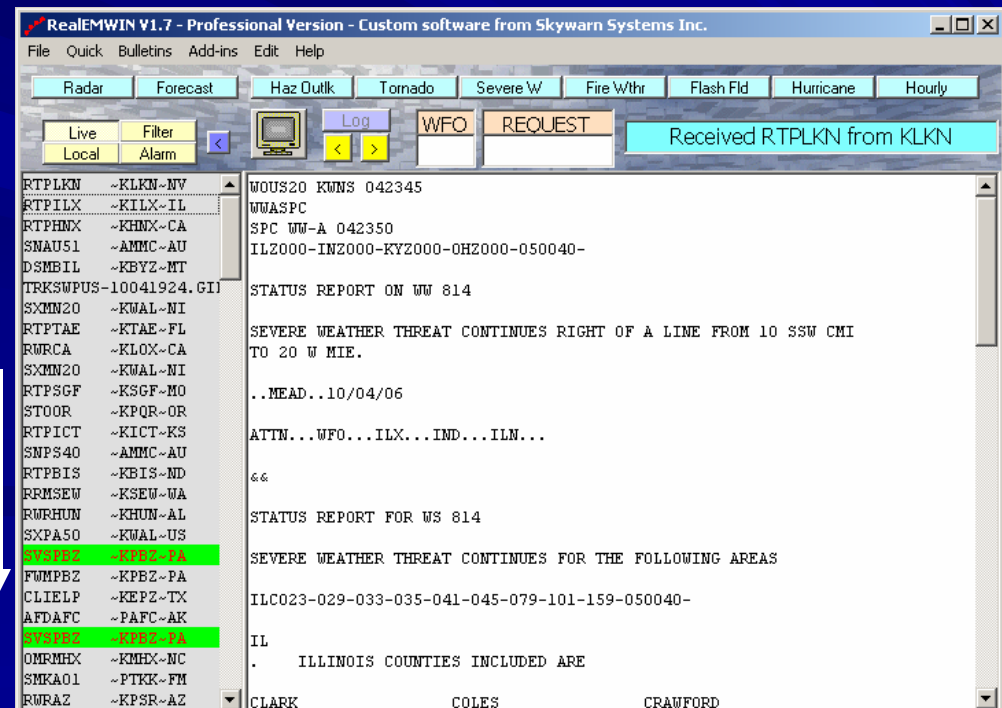
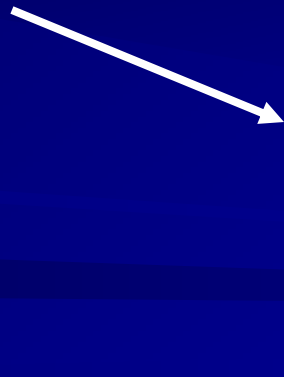


13) Select "OK" when the following dialog box appears:



14) Restart RealEMWIN. File names should begin appearing on the left side.

File names appear and fill down



For those outside of radio  
coverage...

you can use the internet to access  
EMWIN Denver Data



### 13) Set / Verify the following values in the configuration window:

a) Internet Feed mode

b) Enter “DEN” and “BOU” in the first Local WFO boxes, and clear the remaining box.

c) Check the METAR box, and type in “KDEN”

d) Click on “SAVE”.

e) Restart RealEMWIN.

**Configuration**

Operational Mode  
 Standalone  Network  Internet Feed

Comm Port: 1 Baud: 9600

Text: c:\Weather\EMWIN\Data\  
Images: c:\Weather\EMWIN\Images\  
Hourly: c:\Weather\EMWIN\HourlyWX\  
Data-In: C:\PROGRA~1\SKYWAT~1\REALEM~1\  
Custom: c:\Weather\EMWIN\Archive\  
WXPLOT:

Local WFO's  
DEN BOU

Purge Time: 12  
# Prods: 3

Audio:  Unlimited  Restrict  Once

E-Mail:  Compress Bulletins  Expand Headers

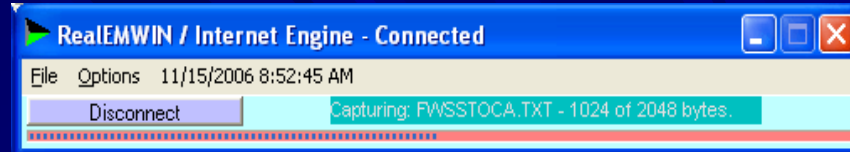
Server:   
Personal:   
Idle Alert:  Internet  RCM Unzip  E-Mail  Pager  I-Net  Bulletin Descriptions

Delay: 3  
METAR:  KDEN

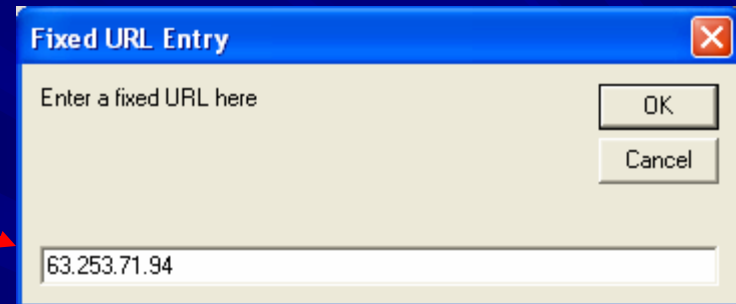
Save Exit



16) The internet engine will appear:



17) Click on “Options” then “enter fixed URL” and type “63.253.71.94” or “63.253.71.95” in the box.



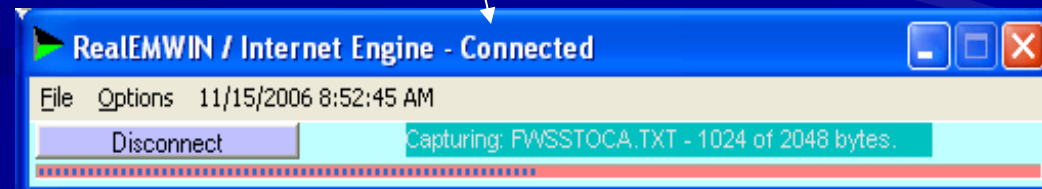
Click “OK”

Select “Options” then “use fixed URL”.

It will be checked.

18) Click “Disconnect”. The computer will then reconnect and show activity. The system is now receiving content from the Adams County EMWIN Server.

Shows CONNECTED



**You have successfully  
installed your equipment  
and  
configured RealEMWIN software  
for use in the Front Range.**

**Enjoy!**



# SECTION FOUR

Software Features



# Features of EMWIN rebroadcast feed from Adams County

- Prioritized local content
  - Watches, warnings, Homeland Security messages
  - Hazardous Weather Outlook
  - Amber alerts
  - Forecasts, current conditions
- Satellite-based imaging
- Hurricane tracks
- Local radar
- Internet feed also available
- Email alerts for local severe weather
- Coming Soon: Message insertion tool for EM's



# RealEMWIN

- General purpose interface
  - Text based
  - Simple, easy to use
- Target Audience
  - Emergency Managers
  - Amateur weather spotters
  - Meteorologists
- Most popular software package

# RealEMWIN

The screenshot displays the RealEMWIN V1.7 software interface. The title bar reads "RealEMWIN V1.7 - Professional Version - Custom software from Skywarn Systems Inc." with the IP address "192.168.1.53:1". The menu bar includes "File", "Quick", "Bulletins", "Add-ins", "Edit", and "Help". The toolbar contains buttons for "Radar", "Forecast", "Haz Outlook", "Short Tm", "Watches", "Fire Wthr", "Flash Fld", "Winter", and "Hourly". Below the toolbar, there are buttons for "Live", "Filter", "Log", "WFO", "REQUEST", and a status bar showing "Received RWRNY from KBLF".

The main display area shows a list of state and river weather roundups on the left and a detailed hazardous weather outlook on the right. The outlook text is as follows:

```
PLUS45 KBOU 091154
HNOBOU

HAZARDOUS WEATHER OUTLOOK
NATIONAL WEATHER SERVICE DENVER CO
554 AM MDT THU SEP 09 2004

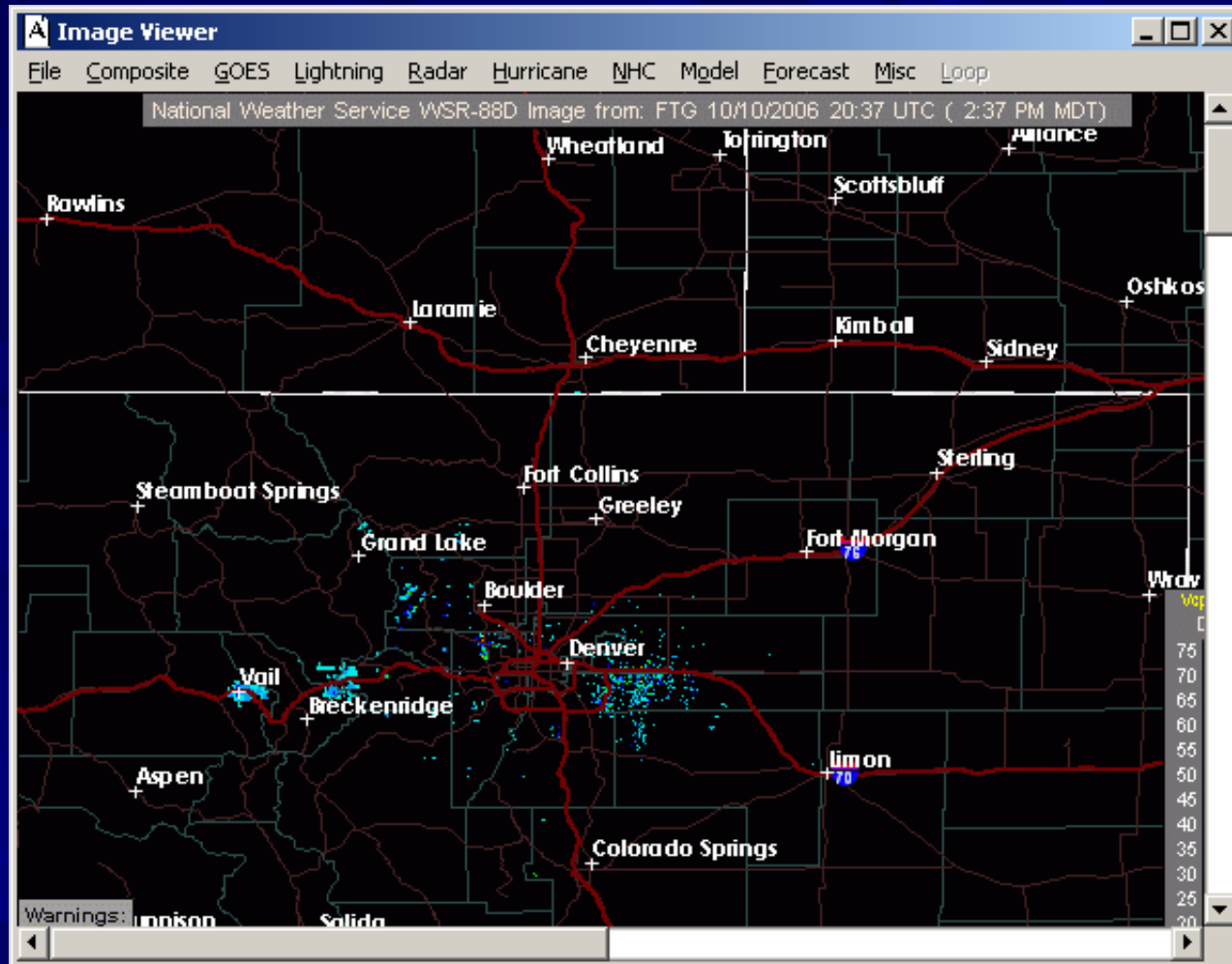
COZ030>051-091700-
JACKSON COUNTY BELOW 9000 FEET-WEST JACKSON AND WEST GRAND
COUNTIES ABOVE 9000 FEET-GRAND AND SUMMIT COUNTIES BELOW 9000
FEET-SOUTH AND EAST JACKSON/LARIMER/NORTH AND NORTHEAST GRAND/
NORTHWEST BOULDER COUNTIES ABOVE 9000 FEET-SOUTH AND SOUTHEAST
GRAND/WEST CENTRAL AND SOUTHWEST BOULDER/GILPIN/CLEAR CREEK/
SUMMIT/NORTH AND WEST PARK COUNTIES ABOVE 9000 FEET-LARIMER AND
BOULDER COUNTIES BETWEEN 6000 AND 9000 FEET-JEFFERSON AND WEST
DOUGLAS COUNTIES ABOVE 6000 FEET/GILPIN/CLEAR CREEK/NORTHEAST PARK
COUNTIES BELOW 9000 FEET-CENTRAL AND SOUTHEAST PARK COUNTY-LARIMER
COUNTY BELOW 6000 FEET/NORTHWEST WELD COUNTY-BOULDER AND JEFFERSON
COUNTIES BELOW 6000 FEET/WEST BROOMFIELD COUNTY-NORTH DOUGLAS
COUNTY BELOW 6000 FEET/DENVER/WEST ADAMS AND ARAPAHOE COUNTIES/
EAST BROOMFIELD COUNTY-ELBERT/CENTRAL AND EAST DOUGLAS COUNTIES
ABOVE 6000 FEET-NORTHEAST WELD COUNTY-CENTRAL AND SOUTH WELD
COUNTY-MORGAN COUNTY-CENTRAL AND EAST ADAMS AND ARAPAHOE COUNTIES-
NORTH AND NORTHEAST ELBERT COUNTY BELOW 6000 FEET/NORTH LINCOLN
COUNTY-SOUTHEAST ELBERT COUNTY BELOW 6000 FEET/SOUTH LINCOLN
COUNTY-LOGAN COUNTY-WASHINGTON COUNTY-SEDGWICK COUNTY-PHILLIPS
COUNTY-
554 AM MDT THU SEP 09 2004

THIS HAZARDOUS WEATHER OUTLOOK IS FOR NORTHEAST AND NORTH CENTRAL
COLORADO.
```

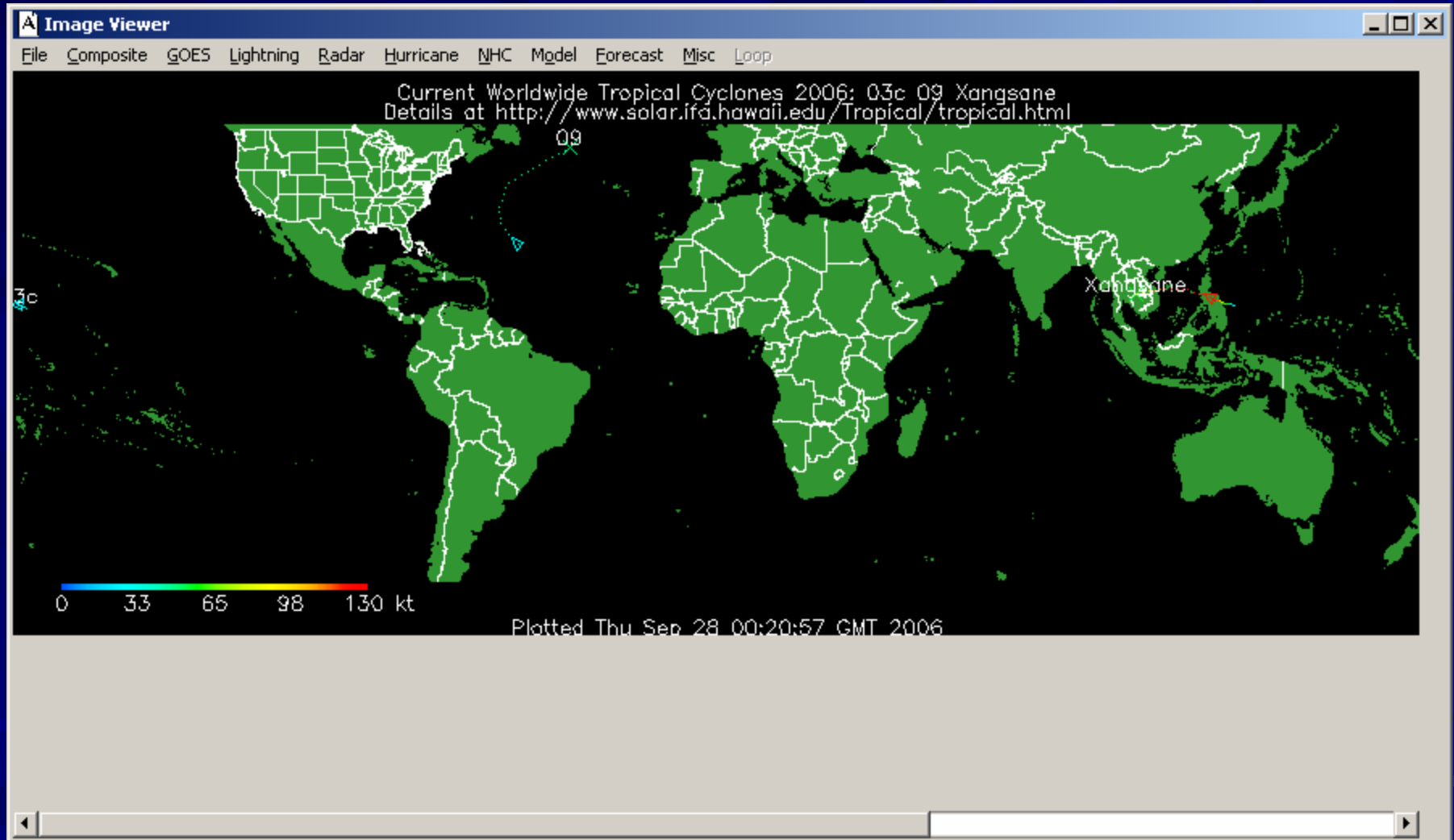
The left sidebar lists various weather products such as "NY -State Weather Roundup", "VT -State Weather Roundup", "MA -State Weather Roundup", "CO -State Weather Roundup", "ID -State Weather Roundup", "AL -State Weather Roundup", "ND -State Weather Roundup", "NY -State Weather Roundup", "AKQ-State Weather Roundup", "AK -State Weather Roundup", "NM -State Weather Roundup", "WBC-River Statement", "PQR-River Statement", "HFR-River Statement", "CTP-River Statement", "BGM-River Statement", "FPCN21 -CWTO-MI", "KRF-River Summary", "TLH-Daily River Forecast", "PWN-Daily River Forecast", "MPX-Daily River Forecast", "GSP-Daily River Forecast", "AFG-River Summary", "TLH-River Summary", "MLI-Automated Hydromet", "MKE-River Summary", "WBC-River Summary", "LSE-River Summary", "DSM-River Summary", "BOS-Hydrology Report", "VEF-Temperature and Precip", "STO-Temperature and Precip", "SJT-Temperature and Precip", "REV-Temperature and Precip", "PUB-Temperature and Precip", "PIH-Temperature and Precip", "OTX-Temperature and Precip", "HFR-Temperature and Precip", and "WR -Temperature and Precip".

The Windows taskbar at the bottom shows the "start" button, several application icons, and the system clock displaying "5:01 PM" on "Thursday".

# RealEMWIN Graphics



# RealEMWIN Graphics



# BREAK

15 minutes



# RealEMWIN

- Customizable alerting interface
  - Audible and visible alerts on-screen
  - log alert history to a file
  - send email

# Weather product terminology

EMWIN products names are structured in a specific way.

The product identifier format is **XXXYYYZZ.AAA**

Where:

<b>XXX</b>	is the product identifier	(TOR)
<b>YYY</b>	is the originating NWS office	(BOU)
<b>ZZ</b>	is the state / marine zone abbreviation	(CO)
<b>AAA</b>	is the format identifier (.txt,.gif, etc.)	

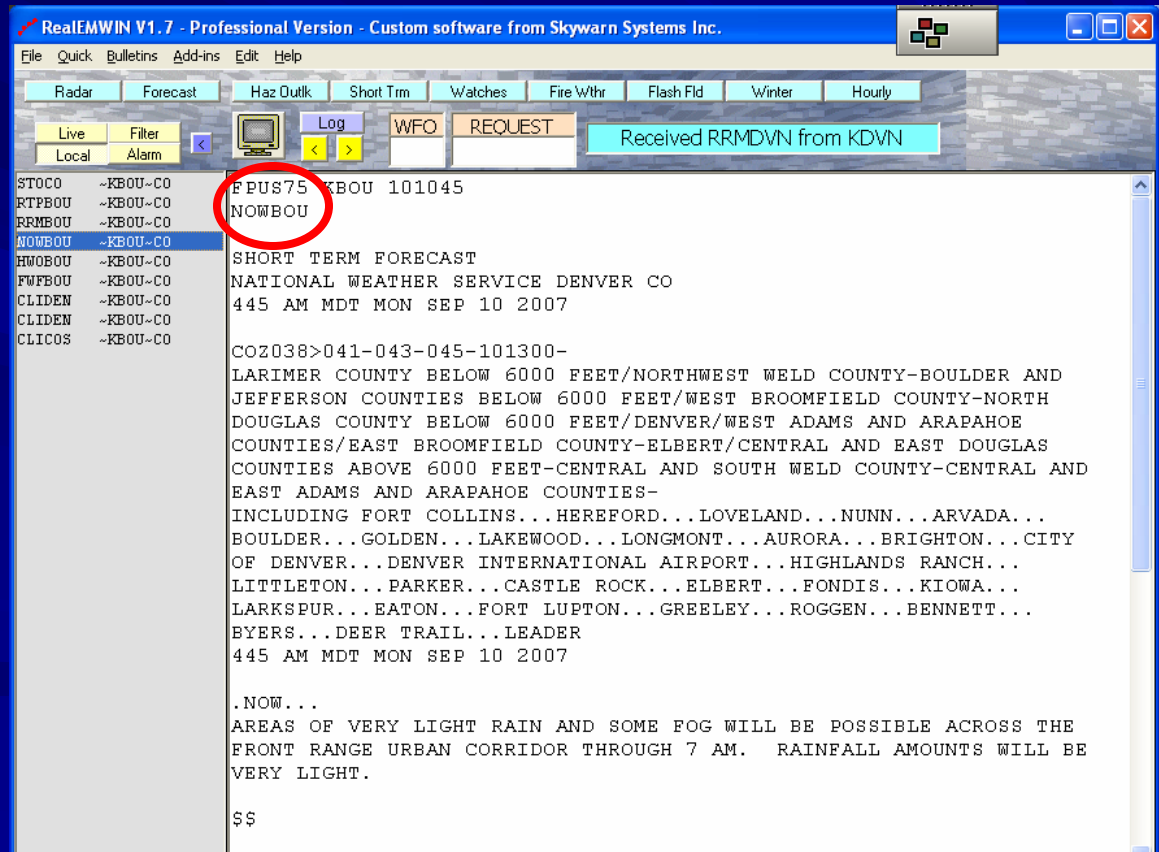
For example, a tornado warning issued from the Boulder WFO would be

**TORBOUCO.TXT**



# Weather product terminology

- You will need the first six characters of the desired product to set an alarm
  - For our purposes, all products are of the form: **XXXBOU**



The screenshot shows the RealEMWIN V1.7 software interface. The window title is "RealEMWIN V1.7 - Professional Version - Custom software from Skywarn Systems Inc.". The interface includes a menu bar (File, Quick, Bulletins, Add-ins, Edit, Help) and a toolbar with buttons for Radar, Forecast, Haz Outlk, Short Tm, Watches, Fire Wthr, Flash fld, Winter, and Hourly. Below the toolbar, there are buttons for Live, Filter, Local, Alarm, Log, WFO, and REQUEST. A status bar at the top right displays "Received RRMDVN from KDVN".

The main display area is divided into two panes. The left pane shows a list of weather products, with "NOWBOU" selected and highlighted in blue. A red arrow points from the text "XXXBOU" in the slide to this list. The right pane displays the forecast for the selected product, starting with "FPUS75 KBOU 101045" and "NOWBOU". The forecast text includes:

```
SHORT TERM FORECAST
NATIONAL WEATHER SERVICE DENVER CO
445 AM MDT MON SEP 10 2007

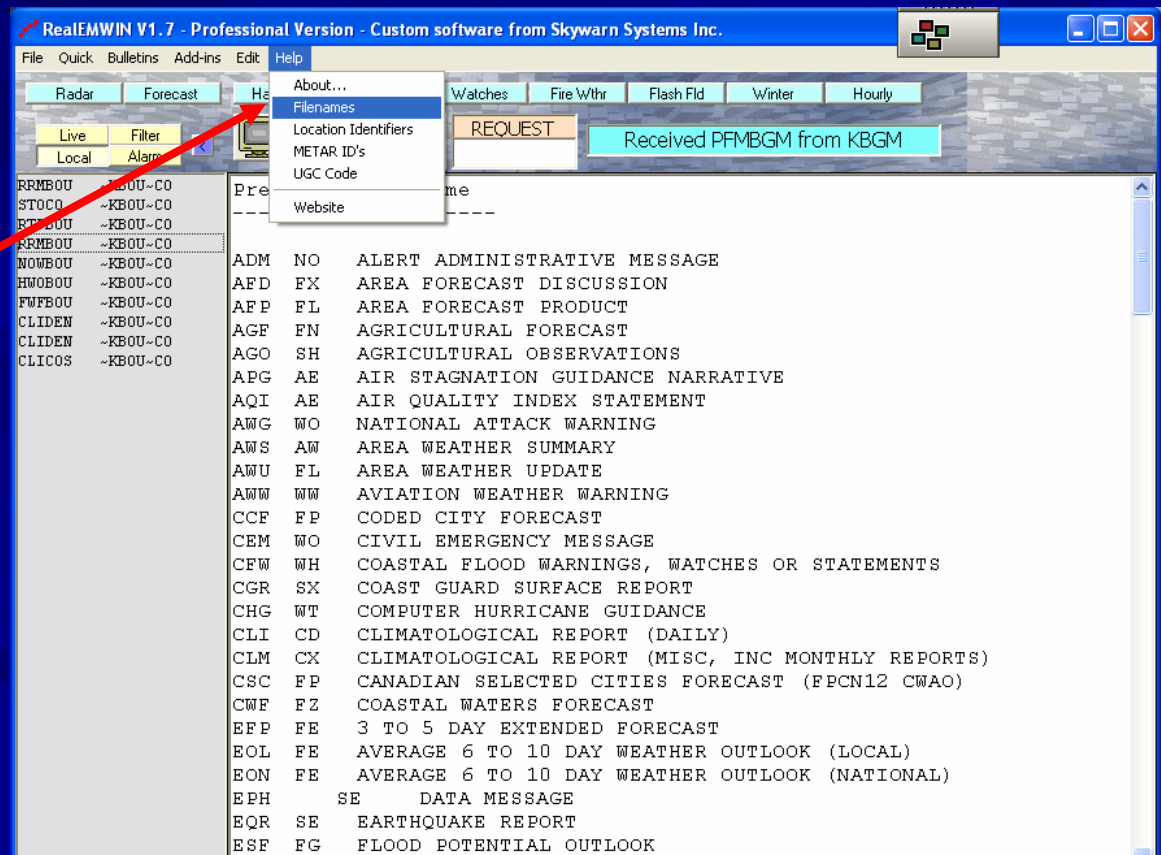
COZ038>041-043-045-101300-
LARIMER COUNTY BELOW 6000 FEET/NORTHWEST WELD COUNTY-BOULDER AND
JEFFERSON COUNTIES BELOW 6000 FEET/WEST BROOMFIELD COUNTY-NORTH
DOUGLAS COUNTY BELOW 6000 FEET/DENVER/WEST ADAMS AND ARAPAHOE
COUNTIES/EAST BROOMFIELD COUNTY-ELBERT/CENTRAL AND EAST DOUGLAS
COUNTIES ABOVE 6000 FEET-CENTRAL AND SOUTH WELD COUNTY-CENTRAL AND
EAST ADAMS AND ARAPAHOE COUNTIES-
INCLUDING FORT COLLINS...HEREFORD...LOVELAND...NUNN...ARVADA...
BOULDER...GOLDEN...LAKEWOOD...LONGMONT...AURORA...BRIGHTON...CITY
OF DENVER...DENVER INTERNATIONAL AIRPORT...HIGHLANDS RANCH...
LITTLETON...PARKER...CASTLE ROCK...ELBERT...FONDIS...KIOWA...
LARKSPUR...EATON...FORT LUPTON...GREELEY...ROGGEN...BENNETT...
BYERS...DEER TRAIL...LEADER
445 AM MDT MON SEP 10 2007

.NOW...
AREAS OF VERY LIGHT RAIN AND SOME FOG WILL BE POSSIBLE ACROSS THE
FRONT RANGE URBAN CORRIDOR THROUGH 7 AM. RAINFALL AMOUNTS WILL BE
VERY LIGHT.

$$
```

# Weather product terminology

- A list of products is available through the “Help”...”Filenames” menu...



# RE Alarm Menu

PRODUCT	Zone	Prnt	Dis	Scr	Audio	E-mail	Pager	EXE	Time	Log	Lst	Cmp	Cus
FFWBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
WSWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
NPWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
SVRBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
SLS?	COC000	No	No	Yes	None	None	None	0	All	No	No	No	No
TORBOU	COC001	No	No	Yes	Alert1	None	None	0	All	Yes	No	No	No

Product: [ ] State: [ ] Print:  Display:  Custom:  Scroll:  Compress:  Log:  List:

County: [ ] EMail: [None] Alert: [None] Pager: [ ] EXE: [ ]

Clear [ ]

Sort by Prod [ ] Sort by Zone [ ] Alarm File:  File 1  File 2  File 3  File 4  File 5 [Add] [Exit]

Time Range: 7 22 [Time]

A wide range of alerting capabilities built into RealEMWIN



# Customizing RealEMWIN

**EMWIN Alarms**

PRODUCT	Zone	Prnt	Dis	Scr	Audio	E-mail	Pager	EXE	Time	Log	Lst	Cmp	Cus
FFWBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
WSWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
NPWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
SVRBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
SLS?	COC000	No	No	Yes	None	None	None	0	All	No	No	No	No

7 22  
Time Range  
Time

Product: TORBOU State: CO  
 Print  Display  Custom  Scroll  Compress  Log  List   
 Adams Email: None Alert: Alert1 Pager: EXE  
 Alarm File:  File 1  File 2  File 3  File 4  File 5  
 Add Exit

Alarm Set up for Tornado Warning – Adams County



# RE Alarm Menu

PRODUCT	Zone	Prnt	Dis	Scr	Audio	E-mail	Pager	EXE	Time	Log	Lst	Cmp	Cus
FFWBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
WSWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
NPWBOU	COZ040	No	No	Yes	None	None	None	0	All	No	No	No	No
SVRBOU	COC001	No	No	Yes	None	None	None	0	All	No	No	No	No
SLS?	COC000	No	No	Yes	None	None	None	0	All	No	No	No	No

Product: TORBOU State: CO County: Adams E-Mail: None Alert: Alert1 EXE: -

Print  Display  Custom  Scroll  Compress  Log  List

File 2 File 3 File 4 File 5 Add Exit

Time Range: 7 22 Time

**NOTE: Be sure to select "Add" before leaving this screen otherwise the alarm is LOST**

# RealEMWIN Alerts and Alarms

RealEMWIN V1.7 - Professional Version - Custom software from Skywarn Systems Inc.

File Quick Bulletins Add-ins Edit Help

Radar Forecast Haz Outlk Short Trm Watches Fire Wthr Flash Fld Winter Hourly

Live Filter Log WFO REQUEST Unzipped Successfully  
Local Alarm

RRMDVN	~KDVN~IA	TEST TEST TEST TEST
OMRILM	~KILM~NC	
SXMN20	~KWAL~NI	This is a TEST WARNING MESSAGE for the RealeMWIN alarm interface
CUFHGX	~KHGX~TX	
IMGWVAUS-09042122.GI:		
SXMN20	~KWAL~NI	
SXMS40	~KWAL~NI	Test test test test
IMGFNT12-09042121.GI:		
SXMS40	~KWAL~NI	
SXMG40	~KWAL~MG	
SXPA50	~KWAL~US	
TESTWARN	~TEST~RN	
FTCA35	~KWBC~US	
FTCA45	~KWBC~US	
SXMN20	~KWAL~NI	
FWSMTR	~KMTR~CA	
IMGFNT06-09042121.GI:		
FWOSGX	~KSGX~CA	
SXMN20	~KWAL~NI	
RRMDVN	~KDVN~IA	
SXPA50	~KWAL~US	
RADDENCO-09042120.GI:		
RADENNTK-09042120.GI:		

TEST TEST TEST TEST

This is a TEST WARNING MESSAGE for the RealeMWIN alarm interface

Test test test test

DISPLAY selection looks like this

SCROLL selection looks like this

TESTWARN - 9/4/2007 9:21:47 PM

This is a TEST WARNING MESSAGE for

RWRMI	~KMKX~WI	
RADPUXCO-09042120.GI:		
RWRIN	~KMEG~TN	
IMGFNT00-09042120.GI:		
CLIGTF	~KTFX~MT	
AFDTPX	~KTFX~MT	
NOWAFG	~PAFG~AK	

# Customizing RealEMWIN

RealEMWIN alarms utility also supports:

Audible alerts

Printing

Executing programs from a DOS shell

Time limits on sending alarms

See RealEMWIN manual ( on CD) for additional details on custom user configurations

See also RealEMWIN web site for FAQ's  
<http://sky.radioweather.us/realwin.html>



# Other Software is available on the market

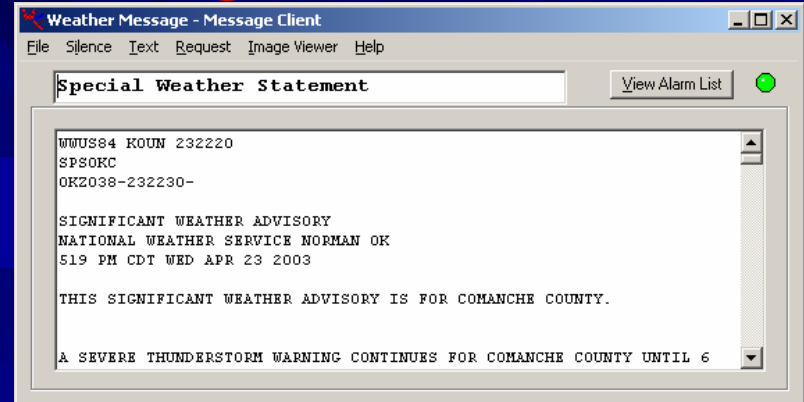
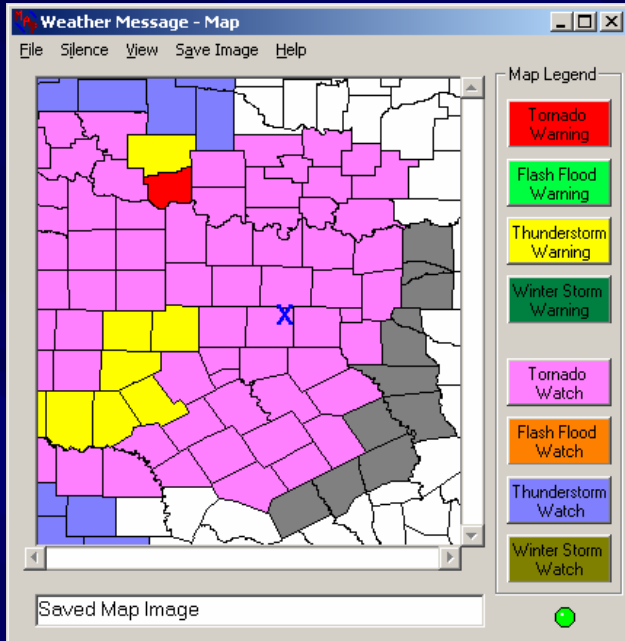
- Weather Message

# Weather Message

- Exceptions focused
  - Severe weather and Homeland Security
- “Low profile” interface with pop-ups
- Rich alarm feature set
- Expandable to over 50 users
- Map interface
  
- Target Audience
  - Public safety / Dispatchers
  - Emergency Managers
  - People that only want to know what will impact their community *now or in the near future*



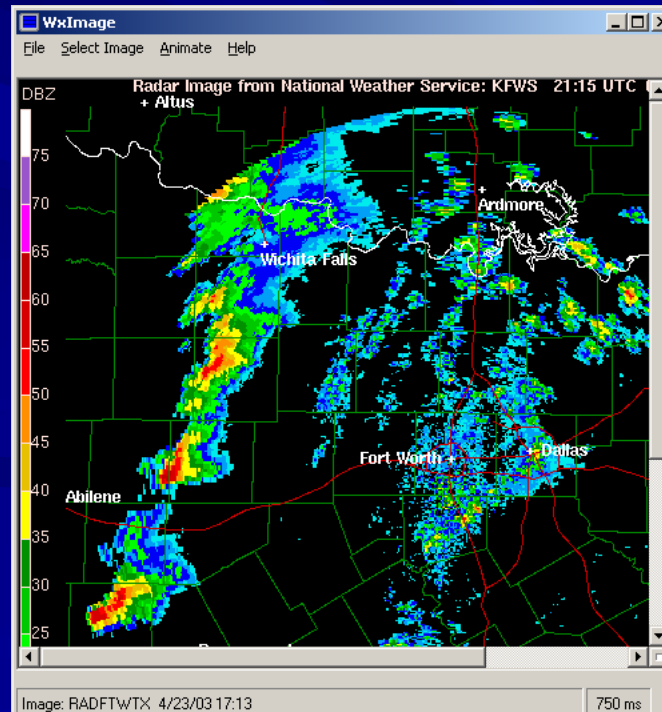
# Weather Message



Pop-up displays

Real time update of  
Watch and Warning areas

Radar loop  
Including zoom and  
autoupdate



# Weather Message

- Alerting interface supports
  - Audible and visible alerts on-screen
  - Text messages to cell phones and pagers
  - Email
  - Fax
  - Print
  - Execute programs
  - Control X-10 equipment (turn on lights, etc.)
  - ***Text parsing capability***

# Weather Message

- *Text parsing capability*
  - *Intelligently filters text messages from hundreds of words to less than 15 words*

**“NWS has issued a Tornado Warning  
For Freestone County until 4:45 pm”**

A screenshot of a web browser window showing a weather message. The address bar contains the URL "http://www.wxmesg.com - Weather Message Weather Text - TORFTW.TXT - ...". The message content is as follows:

```
WFUS54 KFWD 192103
TORFTW
TXC161-192145-

BULLETIN - EAS ACTIVATION REQUESTED
TORNADO WARNING
NATIONAL WEATHER SERVICE FORT WORTH TX
402 PM CDT THU AUG 19 2004

THE NATIONAL WEATHER SERVICE IN FORT WORTH HAS ISSUED A

* TORNADO WARNING FOR...
FREESTONE COUNTY IN NORTH CENTRAL TEXAS

* UNTIL 445 PM CDT

* AT 402 PM CDT...TRAINED WEATHER SPOTTERS REPORTED A TORNADO 3
MILES NORTHWEST OF TEAGUE...MOVING SOUTHEAST AT 30 MPH.

* THE TORNADO IS EXPECTED TO BE NEAR...
TEAGUE AROUND 410 PM CDT

OTHER LOCATIONS IN THE WARNING INCLUDE FAIRFIELD.

IF YOU ARE CAUGHT OUTSIDE...SEEK SHELTER IN A REINFORCED BUILDING. AS
A LAST RESORT...LIE FLAT IN A DITCH OR LOW SPOT AND COVER YOUR HEAD.

LAT...LON 3149 9615 3155 9630 3161 9633 3164 9635
3179 9628 3176 9622 3176 9617 3173 9611
3166 9579 3162 9579
```

The browser's status bar at the bottom shows "Done" and "Internet".

# SECTION FIVE

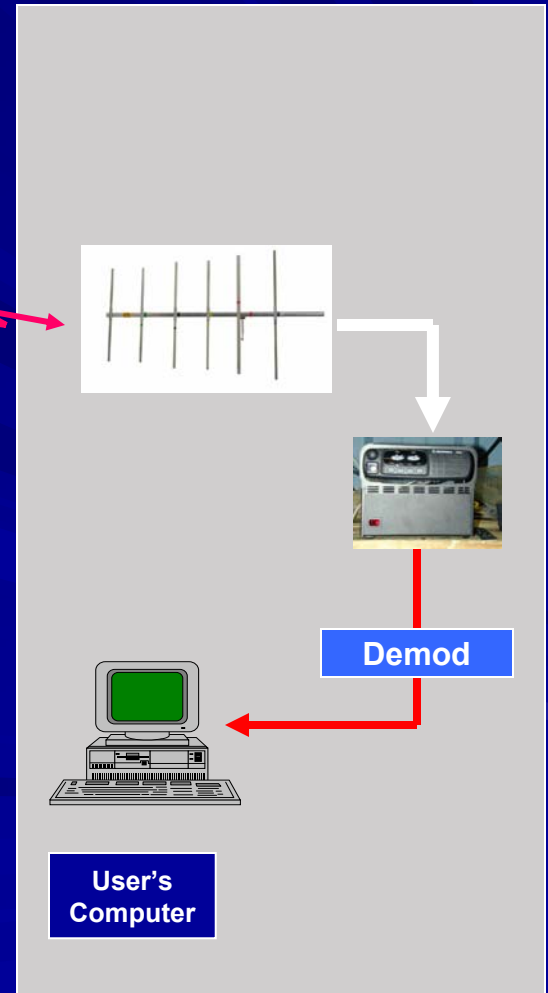
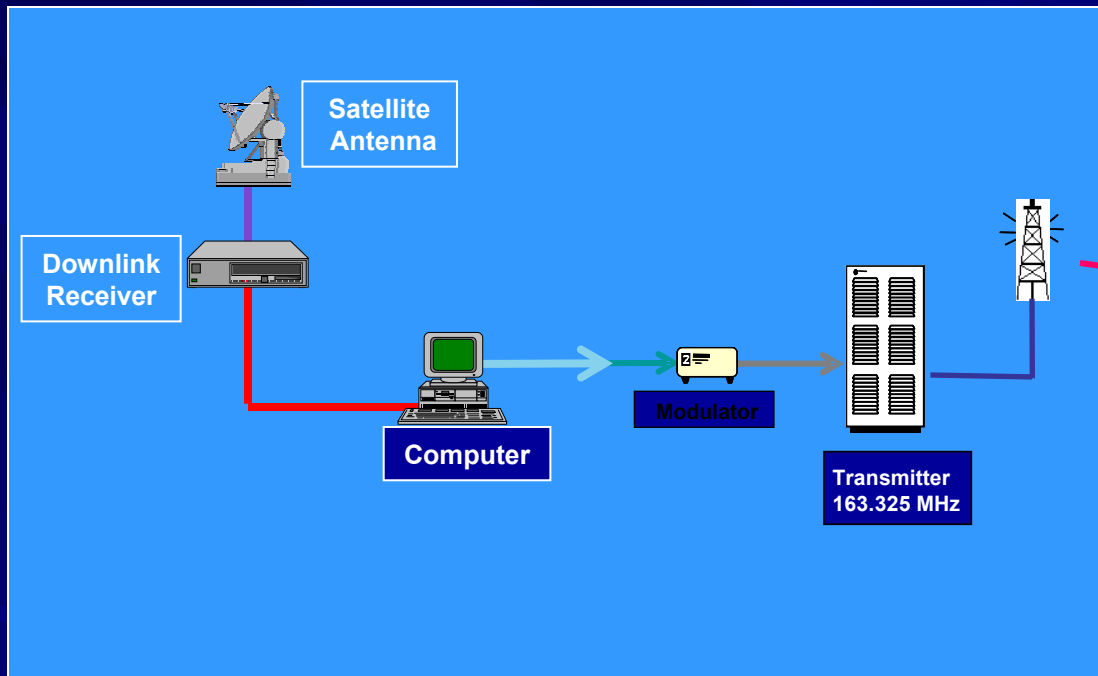
System Level Features



# Simplified EMWIN Denver Rebroadcast System Diagram

Adams County

Remote Receiver sites



# Email System Alerts

The Denver EMWIN System sends email messages to Emergency Managers for the following weather-related products:

## Flood / Flash Flood

FFABOU	Flash Flood Advisory
FFSBOU	Flash Flood Statement
FFWBOU	Flash Flood Warning
FLSBOU	Flood Statement
FLWBOU	Flood Warning

## Other Severe Weather

SVRBOU	Severe Thunderstorm Warning
SVSBOU	Severe Weather Statement
TORBOU	Tornado Warning
NPWBOU	Non Precipitation Warning
WCNBOU	Severe Weather Watch County Notification
WSWBOU	Winter Storm Warning

## OTHER

TSTBOU	Weekly Test Messages
--------	----------------------



# Email System Alerts

- This function is managed by the System Administrators
- If you are NOT currently getting these messages and would like them
- OR... If you are currently getting messages and would like them TO STOP
- contact Kevin Stewart
- NOTE: You can also set your own alarms on RealEMWIN
  - Contact your IT department for support in setting it up



# EMWIN Weather Web Page

The screenshot shows a Windows Internet Explorer browser window displaying the EMWIN Denver homepage. The address bar shows the URL <http://emwin.udfcd.org/weather.htm>. The page content includes a header with "EMWIN Denver" and "EMWIN Denver Homepage". Below this is a section titled "Colorado North Central Region Emergency Management Emergency Manager's Weather Information Network (EMWIN) Report Selector". This section contains six buttons arranged in two rows of three. The first row buttons are "Today's Weather Colorado Front Range", "Current Conditions & Outlooks National Maps", and "Radar Images Local & Regional". The second row buttons are "Flood & Hydrology Colorado Front Range", "Severe Weather Products Colorado Front Range", and "Satellite Images Colorado & National". At the bottom of the page, there are two more buttons: "Summaries" and "EMWIN Information & Links". The browser's status bar at the bottom indicates "Internet" and "100%" zoom.

http://emwin.udfcd.org/weather.htm - Windows Internet Explorer

http://emwin.udfcd.org/weather.htm

EMWIN Denver

[EMWIN Denver Homepage](#)

Colorado North Central Region Emergency Management  
Emergency Manager's Weather Information Network (EMWIN) Report Selector

Today's Weather Colorado Front Range	Current Conditions & Outlooks National Maps	Radar Images Local & Regional
Flood & Hydrology Colorado Front Range	Severe Weather Products Colorado Front Range	Satellite Images Colorado & National

Summaries      EMWIN Information & Links

Internet 100%

# Coming Soon: Message Insertion Tool

Denver Front Range EMWIN Message Injector - Windows Internet Explorer

H:\Denver\Denver Web Page\injector\_demo\_3.htm

File Edit View Favorites Tools Help

Denver Front Range EMWIN Message Injector

## Denver Front Range Emergency Manager Notification System

Select Message Type: Local Alert Message

Select Notification Area: Denver Metro Area

Enter Message Text  
(max 2000 Characters):

THIS IS A TEST OF THE DENVER FRONT RANGE EMERGENCY MANAGER NOTIFICATION SYSTEM.

THIS IS ONLY A TEST. DO NOT TAKE ANY ACTION BASED ON THIS ALERT.

Effective For: 2 hours

SEND

My Computer 100%

# Questions



# “Hands On” time with RealEMWIN



***Thank You  
For attending!***



# APPENDIX

