



Some slides gently stolen from a video by Rick Frost, K4REF

CACHE COUNTY ARES GETTING STARTED WITH WINLINK 2000

WHAT IS WINLINK?

- ✘ Global system for e-mail via radio
 - + Useful when Internet is not available (e.g. sailing)
 - + Radio - Internet email
 - + Radio - Radio email ("peer-to-peer")

- ✘ Standard e-mail backup for EMCOMM
 - + Amateur radio (e.g. RACES, ARES)
 - + Federal (e.g. DHS)
 - + State and Local agencies

REQUIRED EQUIPMENT

- ✘ The required equipment needed to operate within the Winlink2000 system is:
- ✘ (1) a Windows-operating system computer,
- ✘ (2) a VHF/UHF or HF transceiver., and
- ✘ (3) a terminal node controller (TNC or radio modem) or a sound card interface.
- ✘ *Microsoft's Net Framework 1.1, not 2.0. Service packs also are necessary for Win2000 and WinXP.*

PREFERRED VHF TNC

\$200



COMPATIBLE TNC'S ARE:

- ✘ Kantronics KPC3, KPC3+, KAM98, KAM+, KPC9612
- ✘ AEA/Timewave PK-88, PK-232, PK900, DSP232, PK-96
- ✘ MFJ-1278 – ROM version 3.7 needed
- ✘ Kenwood Radios with built in TNC – TH-D710, D700
- ✘ Byonics TinyTrak4
- ✘ Sound Card Modems – Signal link, etc.
- ✘ SCS modems for HF Pactor (High Cost)

KPC CONNECTIONS



KENWOOD TH-D710

\$500



SIGNALINK - USED FOR HF \$100

Signalink USB (HF Winmor)



SIGNALINK CONNECTIONS



SCS P4 MODEM \$1500



SERIAL CONNECTIONS



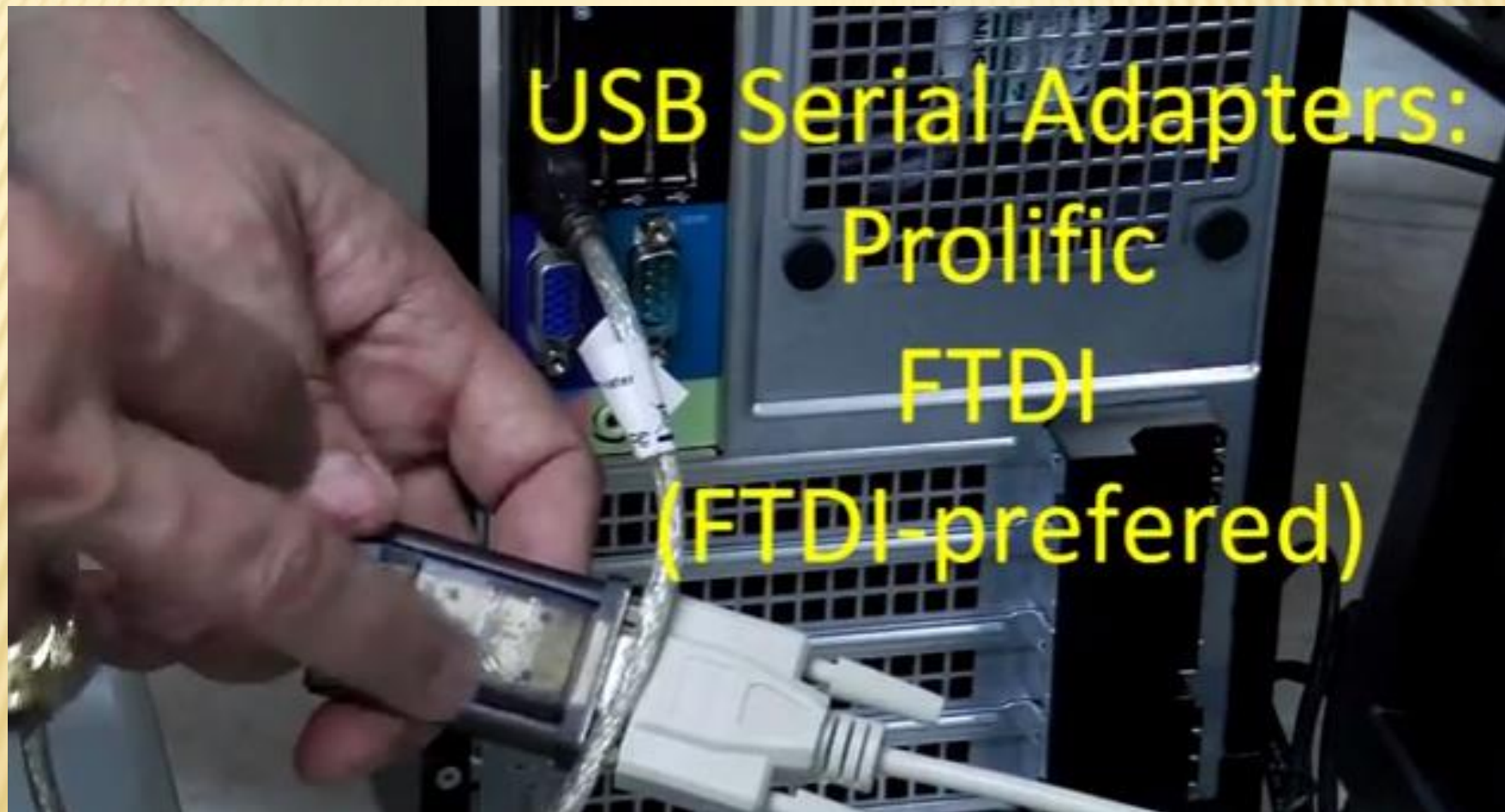


USB ADAPTORS





USB Serial Adapters:
Prolific
FTDI
(FTDI-preferred)



From the brand:



USB RS-232 Serial Adapter with LED Indicators

by Gearmo

★★★★★ 22 customer reviews | 3 answered questions

Price: **\$17.95** ✓Prime

In Stock.

Sold by [SerialStuff](#) and Fulfilled by Amazon. Gift-wrap available.

Want it Friday, Oct. 18? Order within **19 hrs 11 mins** and choose **One-Day Shipping** at checkout. [Details](#)

- FTDI Chip USB to RS-232 Cable With LED monitor
- Full RS-232 Signal LED Tester Output Via Dual Color Display
- DCD , RxD, TxD, DTR , GND,DSR ,RTS ,CTS , RI
- Easy test RS-232 Host to Device link
- Standard USB TO RS-232 cable With Double color LED Display of Full Signal Power

2 new from **\$17.95**

[Click to open expanded view](#)

DOWNLOAD SOFTWARE FROM WINLINK.ORG



> [My Account](#)

> [Tools](#)

> [News](#)

> [Position Reports](#)

> [Client Software](#)

> [The Book of Knowledge](#)

> [Support](#)

Get RMS Express

The *only* client with **everything** Winlink offers.

Easy to setup, learn and use. Fully supported. *Free*.

Every ham needs email when the internet is down-- locally, regionally, or *everywhere!*

[Download the latest production release.](#)



A New Open Protocol is Coming

A new, open radio protocol is in the future for Winlink users, and for amateurs everywhere. [ARDOP \(Amateur Radio Digital Open Protocol\)](#) is a new cooperative radio protocol project in which the [Amateur Radio Safety Foundation](#) and Rick Muething, KN6KB, of the Winlink Development Team is proud to have a major role. ARDOP will ultimately replace [WINMOR](#) in the Winlink system because of it's superior features and multiple platform (OS) support.

Network Station News

- KK4ZUU-11 new 40m HF node *test me* 25w FM18GT
- W7CWY
- VE7RBH going Off Air for a while
- KK4ZUU-10 (Frequency for VHF packet?)
- N8OHU-10 Packet/UHF ARDOP node
- XE2EOS out of service (xe2/n6kzb)
- VA7TSA UPDATE: Down until further notice
- HS0ZIB - New Winlink HF station on Phuket Island, Thailand
- VE7RBH frequency changes
- AG6QO Gateway Maintenance is Complete
- AG6QO Gateway will be down for maintenance - JUN 8 0330Z-1400Z
- XE1VP back in service, damage repaired. (xe2/n6kzb)
- XE1VP lightning damage, off line for now (xe2/n6kzb)
- K9EW (2015-05-28)
- VA7TSA Update: SCS-PTC USB tnc Pactor 4 added
- KD8PGB is now W5DMH Great Lakes Station
- S50ARO now P4 QRV.
- K9LAE 40 METER WINMOR NODE IS BACK ON THE AIR

DOWNLOAD THE ZIP FILE



> [My Account](#)

> [Tools](#)

> [News](#)

> [Position Reports](#)

> [Client Software](#)

> [The Book of Knowledge](#)

> [Support](#)

RMS Express


RMS Express is the preferred Winlink 2000 (WL2K) radio email client because it supports all new WL2K features, including [the Winlink Hybrid Network](#) and Secure Login to prevent unauthorized access to your radio email account. RMS Express is designed to be most easily used by single users with a single call sign but it may also be used with one or two tactical addresses or alternate callsigns. It supports a wide selection of TNCs and multimode controllers, the sound card mode WINMOR, HF Pactor, SCS Robust Packet, VHF/UHF AX.25 packet radio, and direct telnet to WL2K CMS servers or RMS Relay (for amateur radio High Speed Multimedia [HSMM], Broadband HamNet, D-Star DD mode, internet, or other TCP/IP networks).

RMS Express is built by the Winlink Development Team for use with the Winlink system and leverages its features with simplicity as the prime design objective. It uses the B2F radio message transfer protocol that supports attachments, multiple addresses and tactical addresses. With the WINMOR mode RMS Express may be used peer-to-peer (connecting directly via RF to other RMS Express or Airmail clients). RMS Express also contains manual and automated GPS position reporting abilities, support for the Winlink catalog of downloadable weather, information and help bulletins, Saildocs and Globalmarinenet for obtaining GRIB files, and a propagation prediction program to help determine which of the participating Winlink RMS gateway stations are best to connect to from anywhere on earth.

RMS Express may be used as a client for emergency communications. It has some special features for EmComm, such as HTML/CSS forms creation and formless content transport, plus [a library of pre-created forms](#) to use. Before adopting RMS Express as your program for EmComm, please check with your local EmComm group for their plans. This may be your ARES, RACES, MARS etc. organization that will be responsible for providing training and support.

System Requirements: Microsoft-supported 32 or 64 bit Windows OS (Windows Vista, Windows 7, 8 or Windows 2003 Server, or later, or under Windows on Apple Mac machines using a VM engine or dual boot arrangement. Windows XP is not supported. The program makes minimal CPU demands with the exception of WINMOR operation. The heavy DSP demands of WINMOR require a computer of at least 700 MHz Pentium/Celeron class and at least 512 Meg of memory. If multiple applications are running concurrently, we recommend a faster computer and more RAM.

Download:

 [rms_express_install_1-3-4-0.zip](#)

OTHER SOFTWARE LINKS



Get RMS Express

The *only* client with **everything** Winlink offers.
Easy to setup, learn and use. Fully supported. *Free*.
Every ham needs email when the internet is down-- locally, regionally, or *everywhere!*
[Download the latest production release.](#)



Network Station News

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- XE1VP lightning damage, off line for now (xe2/n6kzb)
- K9EW (2015-05-28)
- VA7TSA Update: SCS-PTC USB tnc Pactor 4 added

A New Open Protocol is Coming

USER SOFTWARE AND COMPARISON

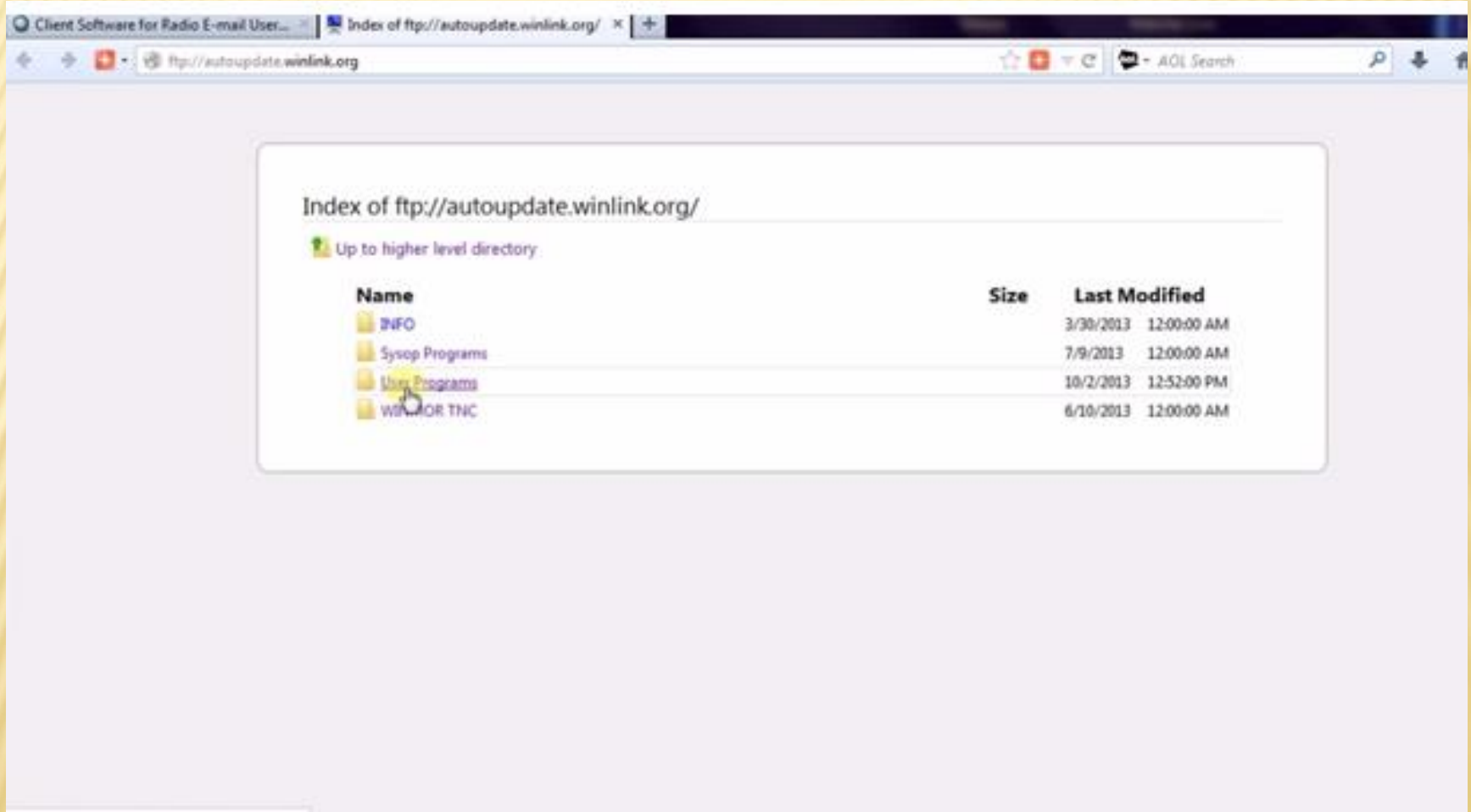


[> My Account](#) [> Tools](#) [> News](#) [> Position Reports](#) [> Client Software](#) [> The Book of Knowledge](#) [> Support](#)

Compare Client Programs

Programs (Download)-> Features below	Dumb Terminal	Outpost	AirMail	Paclink-Unix	Paclink	RMS Express
TELNET	No	Yes	Yes	Yes	Yes	Yes
AX.25 PACKET	Yes	Yes	Yes	Yes	Yes	Yes
PACTOR 1-3	No	No	Yes	Yes	Yes	Yes
PACTOR 4	No	No	Yes	No	Yes	Yes
WINMOR	No	No	No	No	No	Yes

SELECT USER PROGRAMS



The screenshot shows a web browser window with the address bar displaying "ftp://autoupdate.winlink.org/". The main content area shows the "Index of ftp://autoupdate.winlink.org/" with a link to "Up to higher level directory:". Below this is a table listing the contents of the directory:

Name	Size	Last Modified
INFO		3/30/2013 12:00:00 AM
Sysop Programs		7/9/2013 12:00:00 AM
User Programs		10/2/2013 12:52:00 PM
WINFOR TNC		6/10/2013 12:00:00 AM

SELECT RMS EXPRESS SETUP...ZIP

Client Software for Radio E-mail User... | Index of ftp://autoupdate.winlink.org... | +

← → + ftp://autoupdate.winlink.org/User Programs/ AOL Search

Index of ftp://autoupdate.winlink.org/User Programs/

Up to higher level directory

Name	Size	Last Modified
Chat 0.1.4.0 Full install.zip	3546 KB	10/19/2013 12:28:00 PM
itshfbc_120722.zip	3158 KB	7/25/2012 12:00:00 AM
Paclink_setup_4-3-4-0.zip	1684 KB	10/10/2012 12:00:00 AM
README_Install_instructions.txt	2 KB	6/29/2011 12:00:00 AM
RMSMessageLog_setup_1-9-0.zip	7349 KB	5/6/2013 12:00:00 AM
RMS_Express_setup_1-2-14-0.zip	10028 KB	9/10/2013 12:00:00 AM
SCS PTC-Subst and end of PTC-Subst Bpro Bex.pdf	12 KB	5/13/2012 12:00:00 AM
V4Chat 1.0.4.0 Full Install.zip	3390 KB	10/14/2013 4:21:00 PM
WINMOR TNC 1.4.0.0.zip	196 KB	9/7/2011 12:00:00 AM

ftp://autoupdate.winlink.org/User Programs/RMS_Express_setup_1-2-14-0.zip

ITSHFBC...ZIP

Client Software for Radio E-mail User... Index of ftp://autoupdate.winlink.org... x +

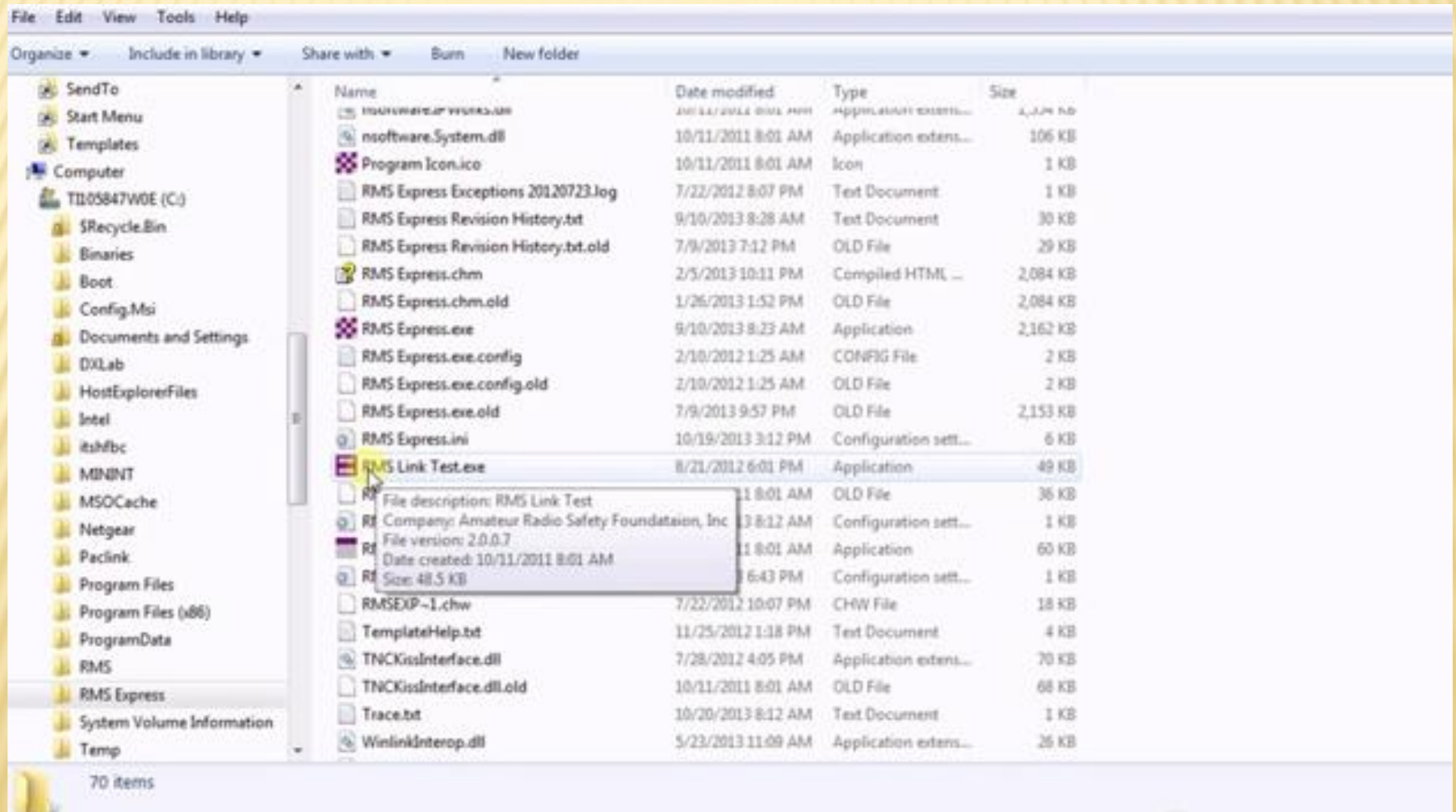
ftp://autoupdate.winlink.org/User Programs/ AOL Search

Index of ftp://autoupdate.winlink.org/User Programs/

Up to higher level directory

Name	Size	Last Modified	
Chat 0.1.4.0 Full install.zip	3546 KB	10/19/2013	12:28:00 PM
itshfbc_1.20222.zip	3158 KB	7/25/2012	12:00:00 AM
PacLink_setup_4-3-4-0.zip	1684 KB	10/10/2012	12:00:00 AM
README_Install_Instructions.txt	2 KB	6/29/2011	12:00:00 AM
RMSMessageLog_setup_1-9-0.zip	7349 KB	5/6/2013	12:00:00 AM
RMS_Express_setup_1-2-14-0.zip	10028 KB	9/10/2013	12:00:00 AM
SCS PTC-Busb and end of PTC-Busb Bpro Bex.pdf	12 KB	5/13/2012	12:00:00 AM
V4Chat 1.0.4.0 Full Install.zip	3390 KB	10/14/2013	4:21:00 PM
WINMOR TNC 1.4.0.0.zip	196 KB	9/7/2011	12:00:00 AM

RMS LINK TEST.EXE



RUN RMS EXPRESS.EXE

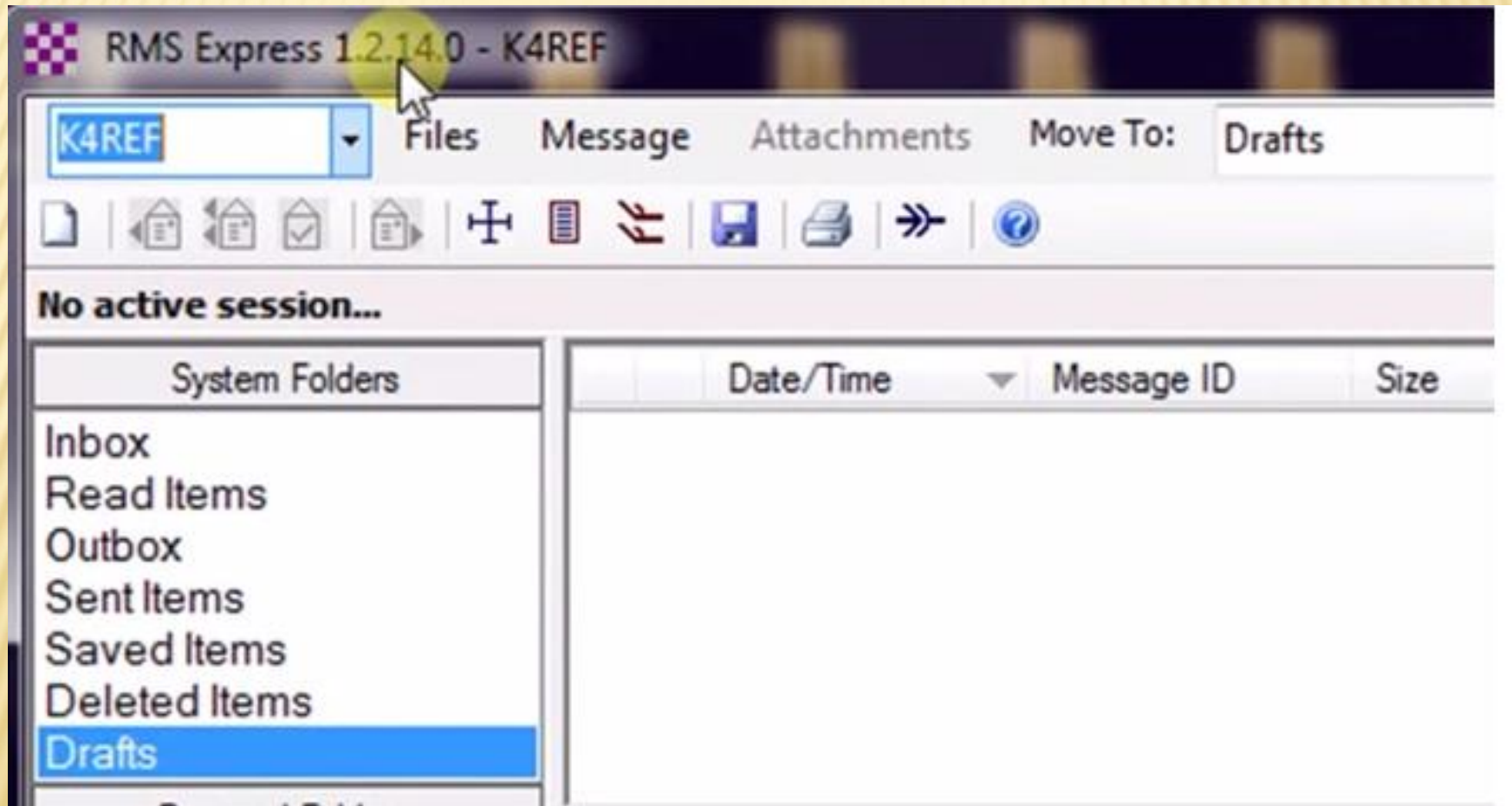
The screenshot shows a Windows Explorer window with the following details:

- Menu Bar:** File, Edit, View, Tools, Help
- Toolbar:** Organize, Open, Burn, New folder
- Left Pane (Navigation):** SendTo, Start Menu, Templates, Computer, TII05847W0E (C:), \$Recycle.Bin, Binaries, Boot, Config.Msi, Documents and Settings, DIXLab, HostExplorerFiles, Intel, itshfbc, MBNT, MSOCache, Netgear, Paclink, Program Files, Program Files (x86), ProgramData, RMS, RMS Express, System Volume Information, Temp
- Right Pane (File List):**

Name	Date modified	Type	Size
msiexec.exe	10/11/2011 8:01 AM	Application extens...	4,124 KB
rssoftware.System.dll	10/11/2011 8:01 AM	Application extens...	106 KB
Program Icon.ico	10/11/2011 8:01 AM	Icon	1 KB
RMS Express Exceptions 20120723.log	7/22/2012 8:07 PM	Text Document	1 KB
RMS Express Revision History.txt	9/10/2013 8:28 AM	Text Document	30 KB
RMS Express Revision History.txt.old	7/9/2013 7:12 PM	OLD File	29 KB
RMS Express.chm	2/5/2013 10:11 PM	Compiled HTML...	2,084 KB
RMS Express.chm.old	1/26/2013 1:52 PM	OLD File	2,084 KB
RMS Express.exe	9/10/2013 8:23 AM	Application	2,162 KB
RMS Express.exe.config	2/10/2012 1:25 AM	CONFIG File	2 KB
RMS Express.exe.config.old	2/10/2012 1:25 AM	OLD File	2 KB
RMS Express.exe.old	7/9/2013 9:57 PM	OLD File	2,153 KB
RMS Express.ini	10/19/2013 3:12 PM	Configuration sett...	6 KB
RMS Link Test.exe	8/23/2012 6:01 PM	Application	49 KB
RMS Link Test.exe.old	10/11/2011 8:01 AM	OLD File	36 KB
RMS Link Test.ini	10/20/2013 8:29 AM	Configuration sett...	1 KB
RMS Simple Terminal.exe	10/11/2011 8:01 AM	Application	60 KB
RMS Simple Terminal.ini	9/19/2013 6:43 PM	Configuration sett...	1 KB
RMSEXP-1.chw	7/22/2012 10:07 PM	CHW File	18 KB
TemplateHelp.txt	11/25/2012 1:18 PM	Text Document	4 KB
TNCKissInterface.dll	7/28/2012 4:05 PM	Application extens...	70 KB
TNCKissInterface.dll.old	10/11/2011 8:01 AM	OLD File	68 KB
Trace.txt	10/20/2013 8:38 AM	Text Document	1 KB
WinlinkInterop.dll	5/23/2013 11:09 AM	Application extens...	26 KB

Status Bar: RMS Express.exe Date modified: 9/10/2013 8:23 AM Date created: 10/11/2011 8:01 AM

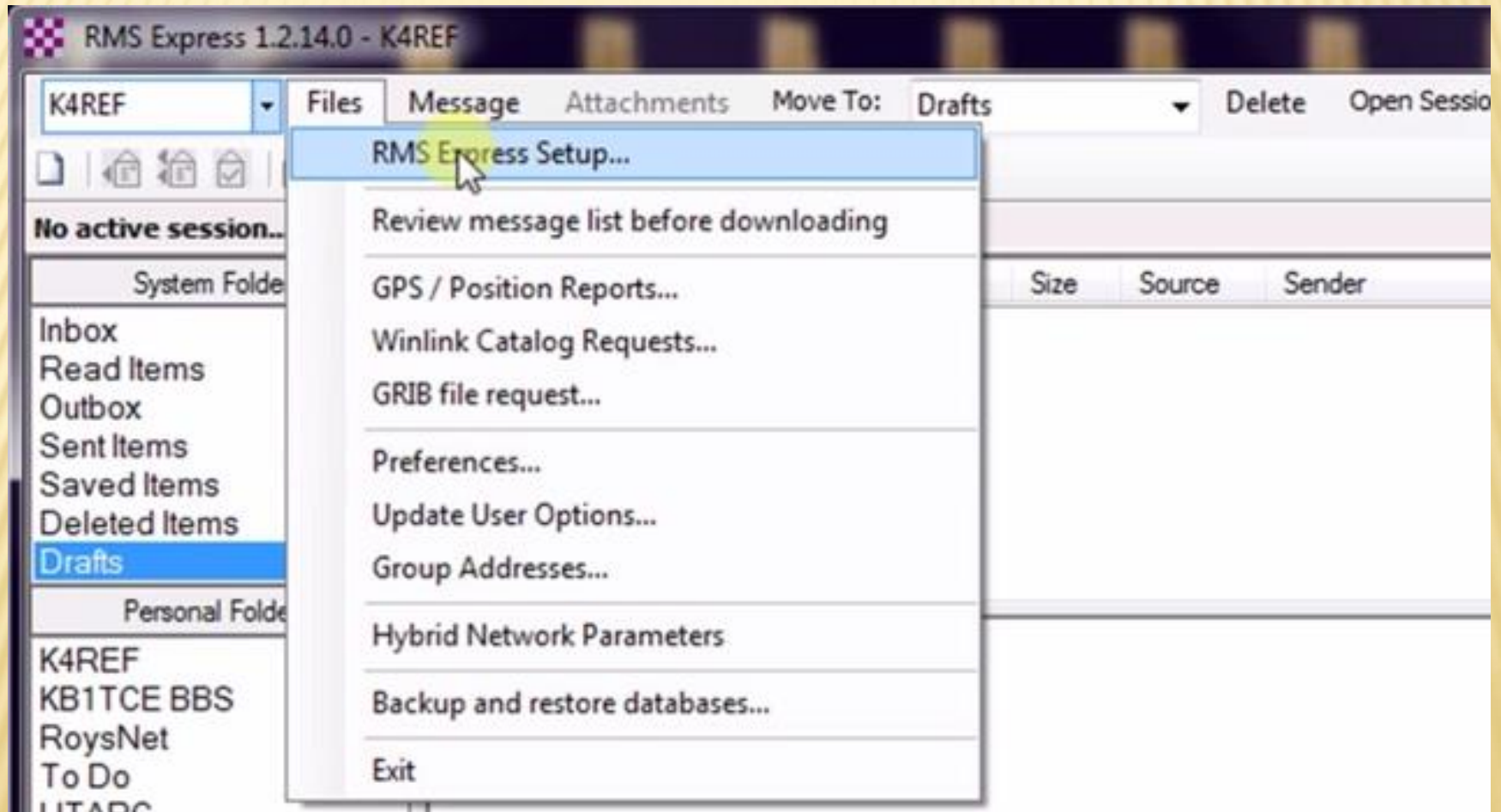
CHECK FOR VERSION



CALLSIGN



FILE



PROPERTIES

RMS Express Properties

Call Signs

My Callsign:

Optional auxiliary callsigns

My shortened callsign:

Aux Call 1:

Add callsign suffix if required (optional):

Aux Call 2:

My Grid Square:

My Password (optional): Use Secure Login

NOTE: A password is required only if you use secure login.

Winmor registration key (optional):

Display list of pending incoming messages prior to download

Warn about connections to stations holding messages

Disable Peer-To-Peer Message Transfer

PASSWORD

My Grid Square:

EM86BB

Lat/Lon to Grid Square

My Password (optional):

||

Use Secure Login

NOTE: A password is required only if you use secure login.

Winmor registration key (optional):

Display list of pending incoming messages prior to download

Warn about connections to stations holding messages

Disable Peer-To-Peer Message Transfer

Path to propagation forecast program:

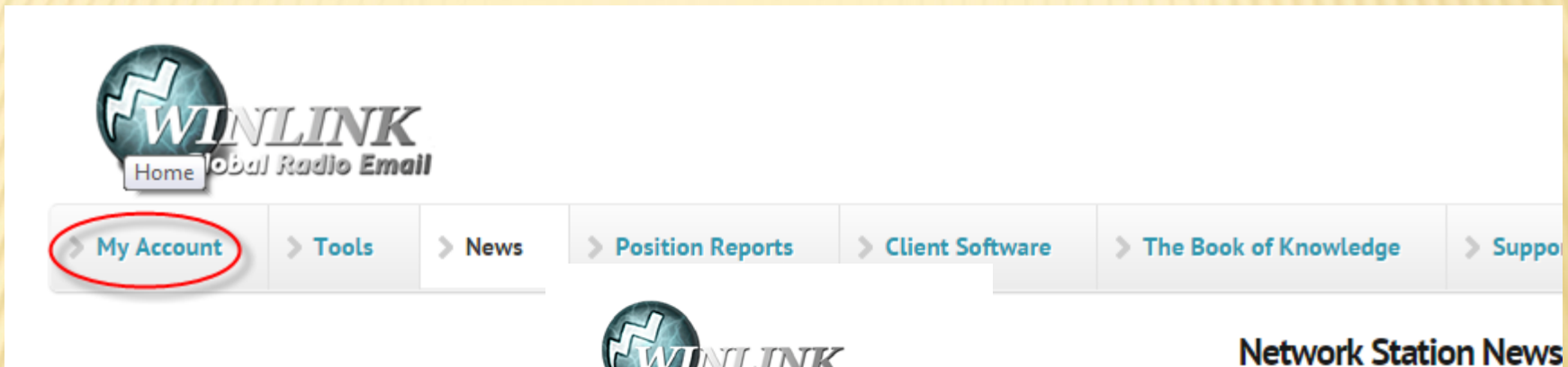
C:\tshfbc\

Service Codes

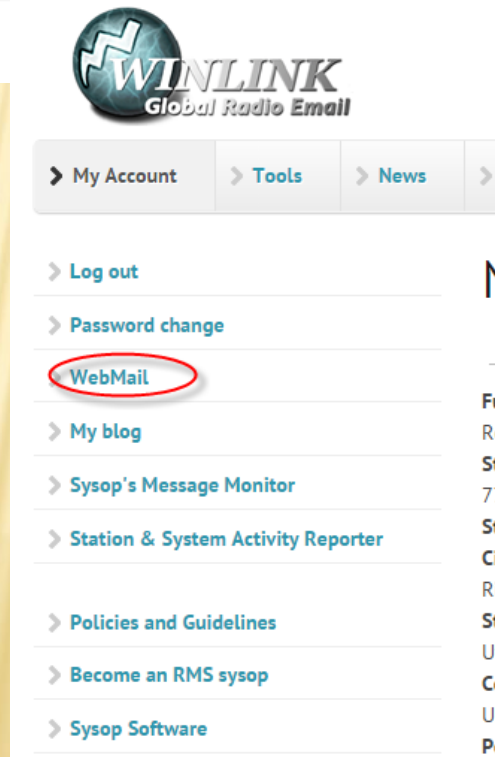
PUBLIC

(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)

LOG INTO WEBMAIL TO GET PASSWORD



The screenshot shows the top navigation bar of the WINLINK website. The logo on the left reads "WINLINK Home Global Radio Email". The navigation menu includes the following items: "My Account" (circled in red), "Tools", "News", "Position Reports", "Client Software", "The Book of Knowledge", and "Support".



This screenshot shows the "My Account" dropdown menu. The menu items are: "Log out", "Password change", "WebMail" (circled in red), "My blog", "Sysop's Message Monitor", "Station & System Activity Reporter", "Policies and Guidelines", "Become an RMS sysop", and "Sysop Software".

Network Station News

WEBMAIL LOGIN

Login to access your winlink.org email account
(both callsign and password are required)

Callsign


Password

(Covered for privacy)

Never had a password or have forgotten it?

[Send me my Password?](#)

USER SETTINGS



> My Account > Tools > News > Position Reports > Client Software

> Log out

> Password change

> WebMail

N7UWX

[View](#) [Edit](#) [Track](#)

Full licensed name:

The image shows a screenshot of the WINLINK user interface. The logo is at the top left. Below it is a navigation bar with buttons for 'My Account', 'Tools', 'News', 'Position Reports', and 'Client Software'. On the left side, there are links for 'Log out', 'Password change', and 'WebMail'. In the center, the call sign 'N7UWX' is displayed. Below the call sign are three buttons: 'View', 'Edit', and 'Track'. A red arrow points from the top right towards the 'Edit' button, which is also circled in red. Below the buttons, the text 'Full licensed name:' is visible.

CHANGE OR ADD USER SETTINGS



- > [My Account](#)
- > [Tools](#)
- > [News](#)
- > [Position Reports](#)
- > [Client Software](#)
- > [The Book of Knowledge](#)
- > [Support](#)

- > [Log out](#)
- > [Password change](#)
- > [WebMail](#)
- > [My blog](#)
- > [Sysop's Message Monitor](#)
- > [Station & System Activity Reporter](#)
- > [Policies and Guidelines](#)
- > [Become an RMS sysop](#)
- > [Sysop Software](#)

N7UWX

[View](#) [Edit](#) [Track](#)

Full licensed name *

The full name of the person, entity or organization licensed with this callsign. Last name, first name of individuals. Include middle initials or middle names as you like. Provide the full organization name if the license belongs to an entity. If in the USA, this name may be written here by the government licensing authority at initial logon, and is the official licensed name for this callsign.

Street address 1 *

The address at which you receive official mail. Normally the street address of your residence or radio station, if land-based.

Street address 2

Use this additional line if needed for the address where you receive official postal mail.

City *

State *

BACK TO WINLINK

My Grid Square:

My Password (optional): Use Secure Login

NOTE: A password is required only if you use secure login.

Winmor registration key (optional):

Display list of pending incoming messages prior to download

Warn about connections to stations holding messages

Disable Peer-To-Peer Message Transfer

Path to propagation forecast program:

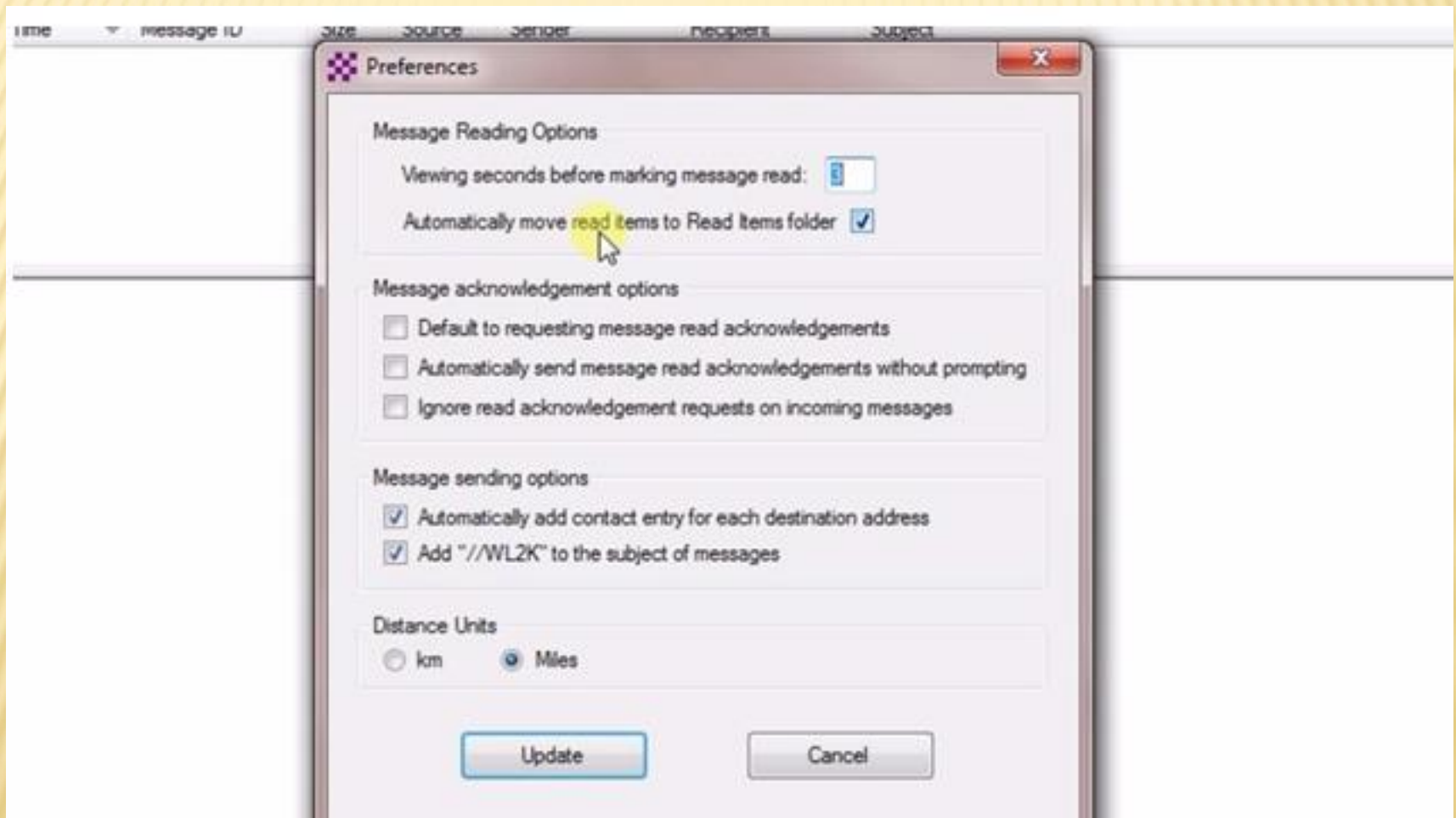
Service Codes

(Use PUBLIC for ham call signs. Separate multiple service codes by spaces.)
If you change service codes, you must update the list of channels.

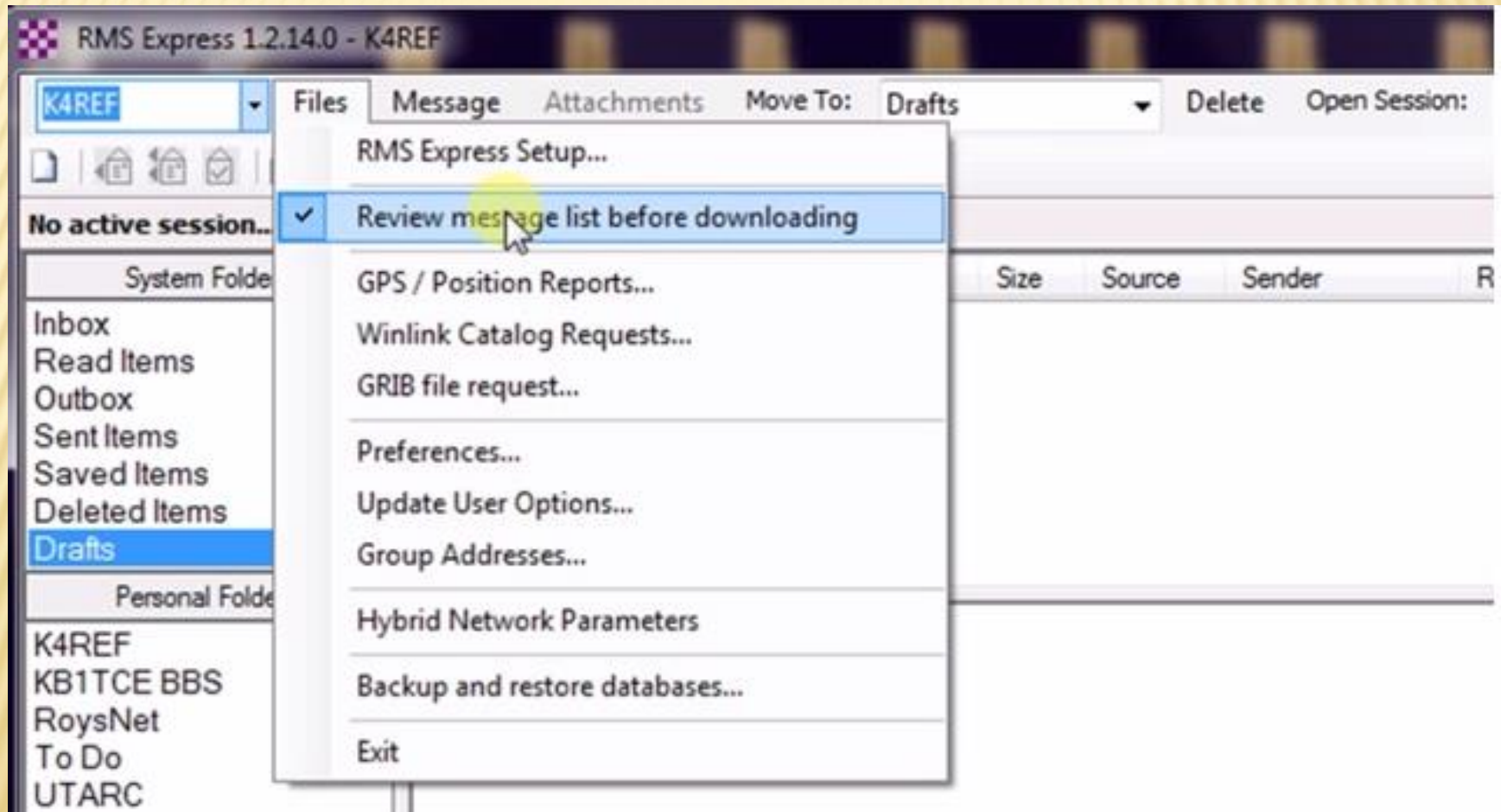
Recalculate HF path quality if SFI changes more than:

Keep logs for weeks

PREFERENCES



FILE MENU



USER OPTIONS



User Options

This dialog will create a message to request or change your user options. Once created the message must be forwarded by radio or telnet to the Winlink system.

Forward my message to this alternate address. Make or leave blank to prevent forwarding:

Limit the size of messages (in compressed form) addressed to me to:

 Bytes

Use the follow out-of-country prefix with my callsign:


Use the follow out-of-country suffix with my callsign:

Query Only Post Cancel

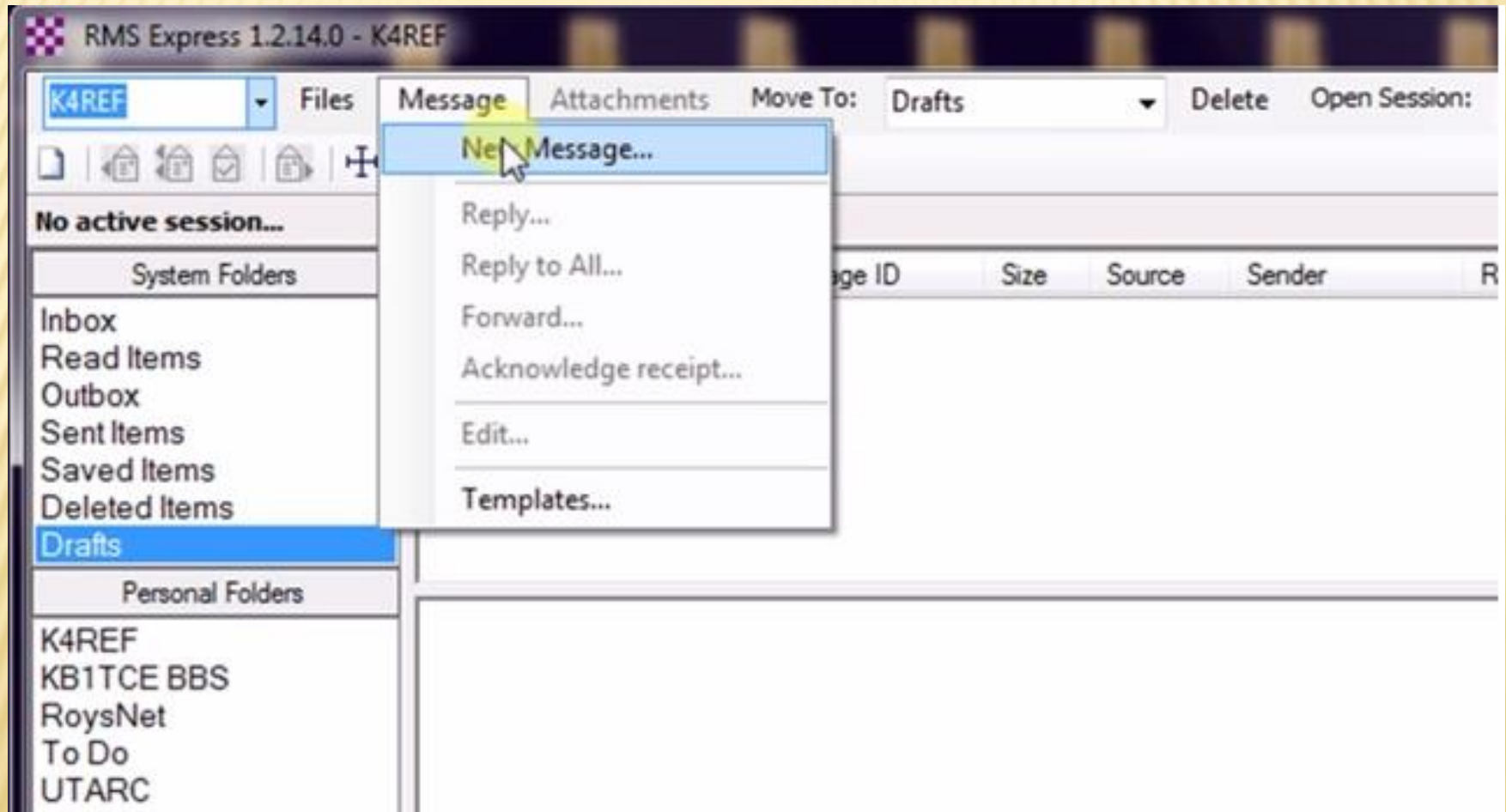
GROUP EMAIL ADDRESS



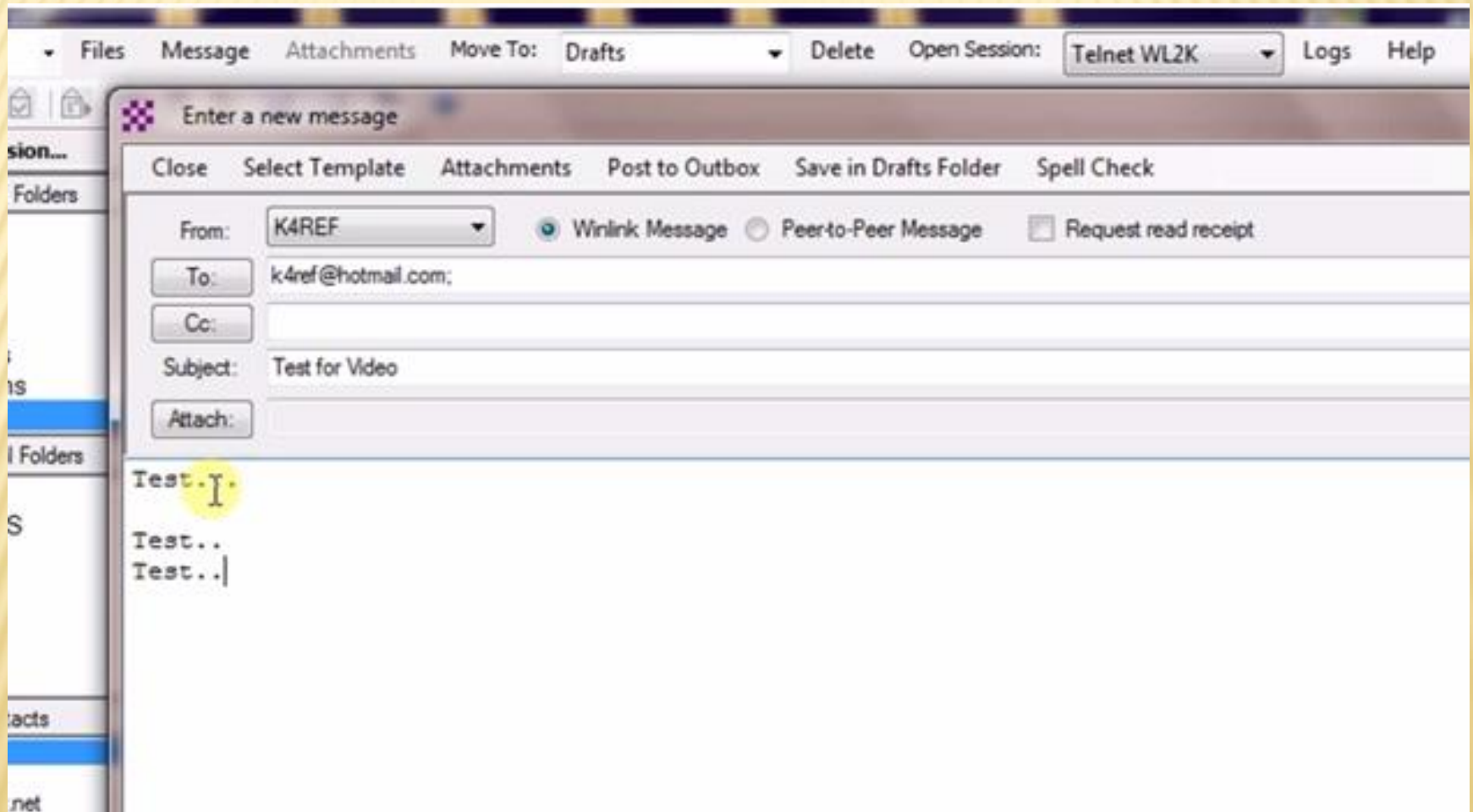
BACKUP OPTIONS

SE/ TIME	message ID	size	source	sender	recipient	subject
 <p>Backup Options</p> <p>Backup databases now</p> <p>Automatic Backup</p> <p><input checked="" type="checkbox"/> Automatically back up RMS Express databases</p> <p>Backup interval (days): 1</p> <p>Old backup expiration period (days): 1000</p> <p>Automatic backups are done with the scheduled interval when RMS Express is closed.</p> <p>Restore backed up databases</p> <p>Restore to: 2013-10-18 08:20:22</p> <p>Restore</p> <p>Update Cancel</p>						

MESSAGE MENU



FIRST EMAIL



SUBJECT STARTING WITH //WL2K

Move To: Delete Open Session: Logs Help

Message ID	Size	Source	Sender	Recipient	Subject
5D0PKQ9T95Y9	197	K4REF	K4REF	k4ref@hotmail.com	//WL2K Test for Video

9T95Y9
7:27
com

RMS Express 1.2.14.0 - K4REF

K4REF Files Message Attachments Move To: Outbox Delete Open Session: Telnet WL2K

No active session...

System Folders

- Inbox
- Read Items
- Outbox**
- Sent Items
- Saved Items
- Deleted Items
- Drafts

Personal Folders

- K4REF
- KB1TCE BBS
- RoysNet
- To Do
- UTARC
- UTKMC

New Message...
Reply...
Reply to All...
Forward...
Acknowledge receipt...
Edit...
Templates...

Message ID	Size	Source	Sender	Recipient
5D0PKQ9T95Y9	197	K4REF	K4REF	k4ref@hotmail.com

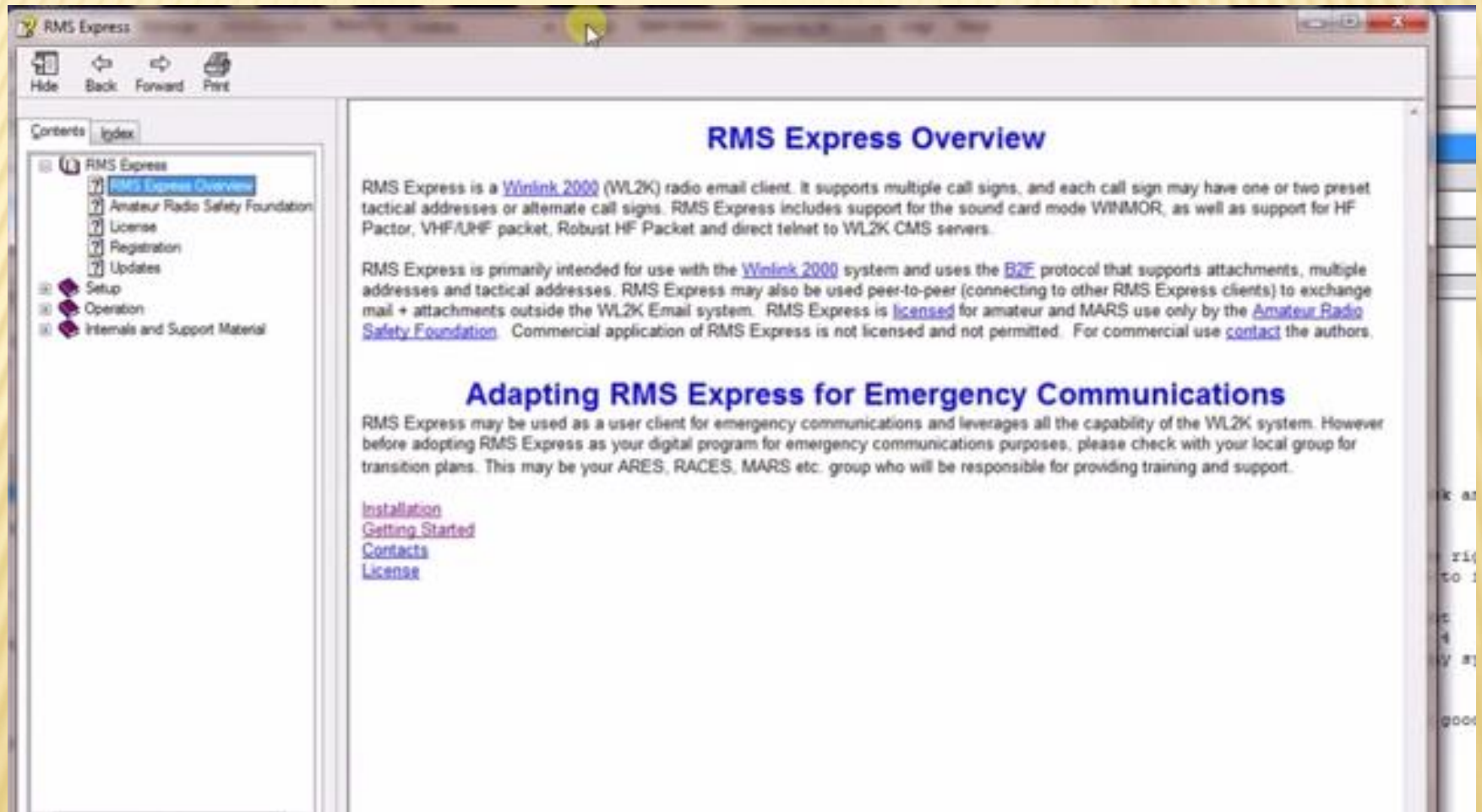
Message ID: 5D0PKQ9T95Y9
Date: 2013/10/18 17:27
From: K4REF
To: k4ref@hotmail.com
Source: K4REF
Subject: //WL2K Test for Video
Test...

HELP

The screenshot shows a software interface with a menu bar at the top. The 'Help' menu is open, displaying the following options: 'Help Contents...', 'Help Index ...', 'Simple Terminal...', and 'About...'. Below the menu bar is a table with columns for 'Source', 'Sender', 'Recipient', and 'Subject'. The table contains several rows of session data. A vertical green highlight is present over the 'Recipient' column.

Source	Sender	Recipient	Subject
K4REF	K4REF	K4M	WL2K Conne
K4REF	K4REF	W1	://wl2k WinkLink
K4REF	K4REF	W4	WL2K Connecting to K4REF-10 Packet
K4REF	K4REF	KC8	://WL2K K4REF-10 the new RMS Packet Gateway in
K4REF	K4REF	W1	://wl2k WinkLink
K4DEC	K4DEC	WA	://WL2K WA4DDC 10 RMS Packet Server

RMS HELP



The screenshot shows a web browser window titled "RMS Express". The browser's address bar is empty, and the navigation buttons (Hide, Back, Forward, Print) are visible. On the left side, there is a "Contents" sidebar with a tree view. The tree view is expanded to show "RMS Express", which includes sub-items: "RMS Express Overview" (highlighted), "Amateur Radio Safety Foundation", "License", "Registration", "Updates", "Setup", "Operation", and "Internals and Support Material".

RMS Express Overview

RMS Express is a [Winlink 2000](#) (WL2K) radio email client. It supports multiple call signs, and each call sign may have one or two preset tactical addresses or alternate call signs. RMS Express includes support for the sound card mode WINMOR, as well as support for HF Pactor, VHF/UHF packet, Robust HF Packet and direct telnet to WL2K CMS servers.

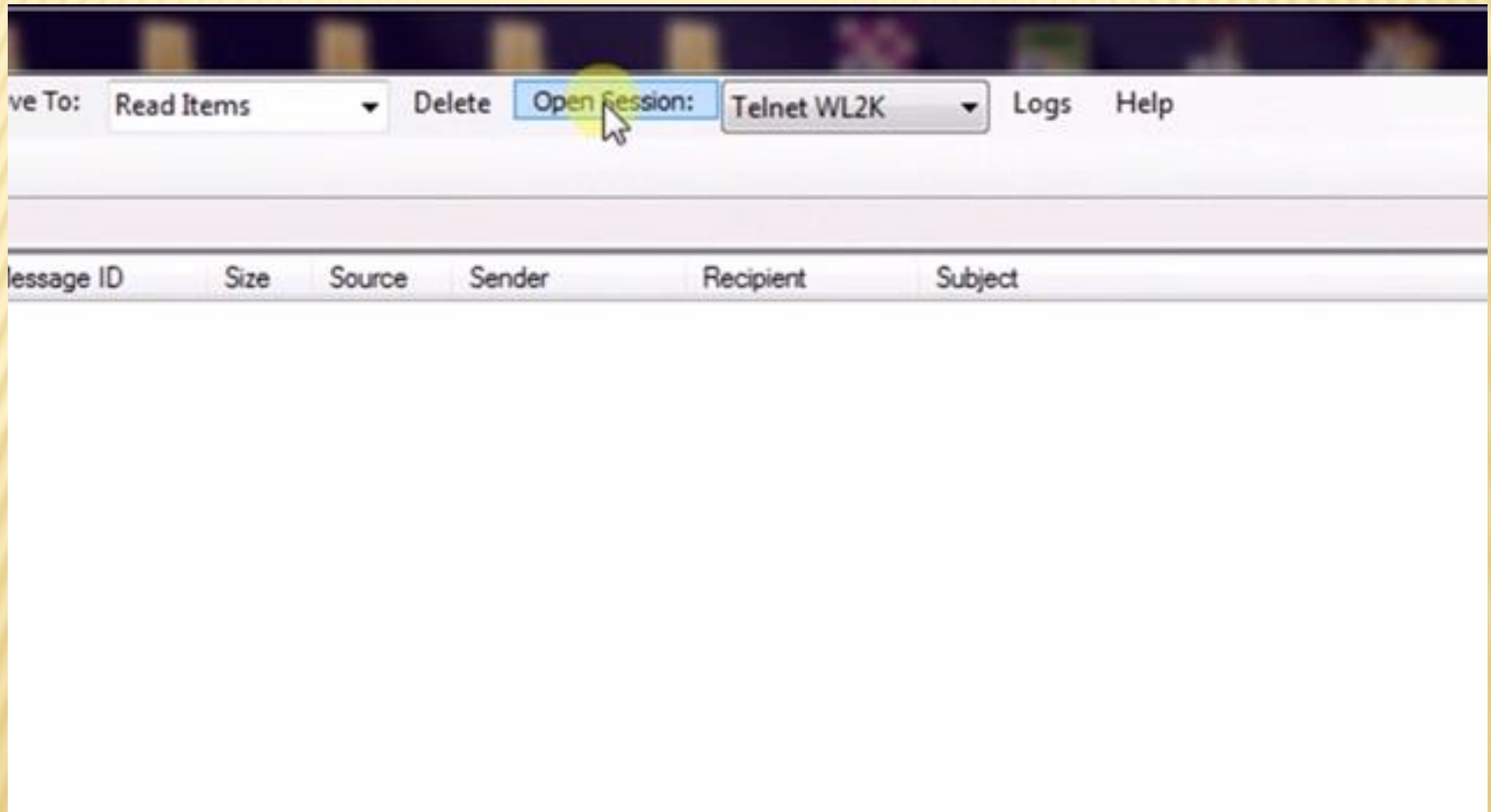
RMS Express is primarily intended for use with the [Winlink 2000](#) system and uses the [BZF](#) protocol that supports attachments, multiple addresses and tactical addresses. RMS Express may also be used peer-to-peer (connecting to other RMS Express clients) to exchange mail + attachments outside the WL2K Email system. RMS Express is [licensed](#) for amateur and MARS use only by the [Amateur Radio Safety Foundation](#). Commercial application of RMS Express is not licensed and not permitted. For commercial use [contact](#) the authors.

Adapting RMS Express for Emergency Communications

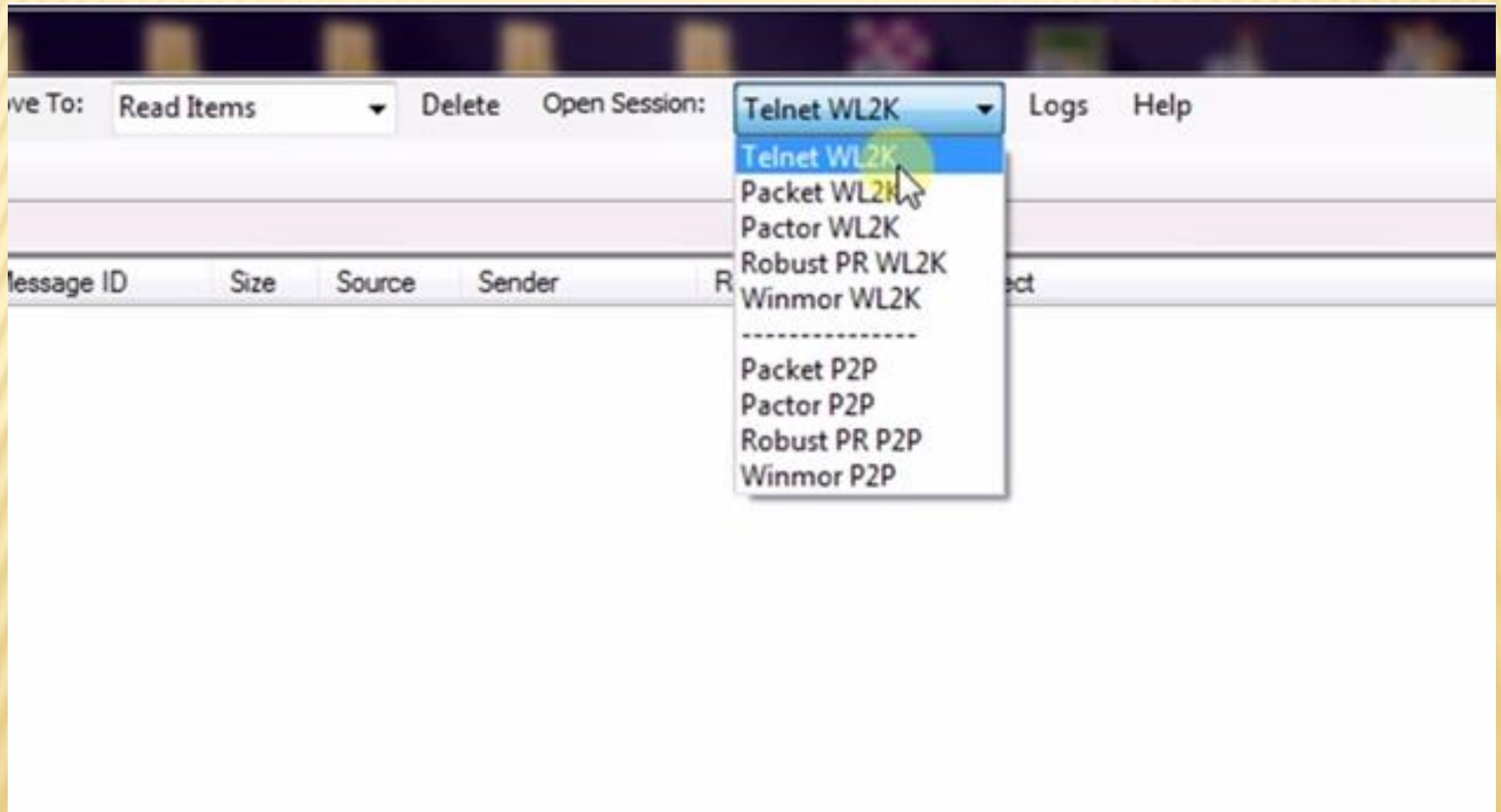
RMS Express may be used as a user client for emergency communications and leverages all the capability of the WL2K system. However before adopting RMS Express as your digital program for emergency communications purposes, please check with your local group for transition plans. This may be your ARES, RACES, MARS etc. group who will be responsible for providing training and support.

[Installation](#)
[Getting Started](#)
[Contacts](#)
[License](#)

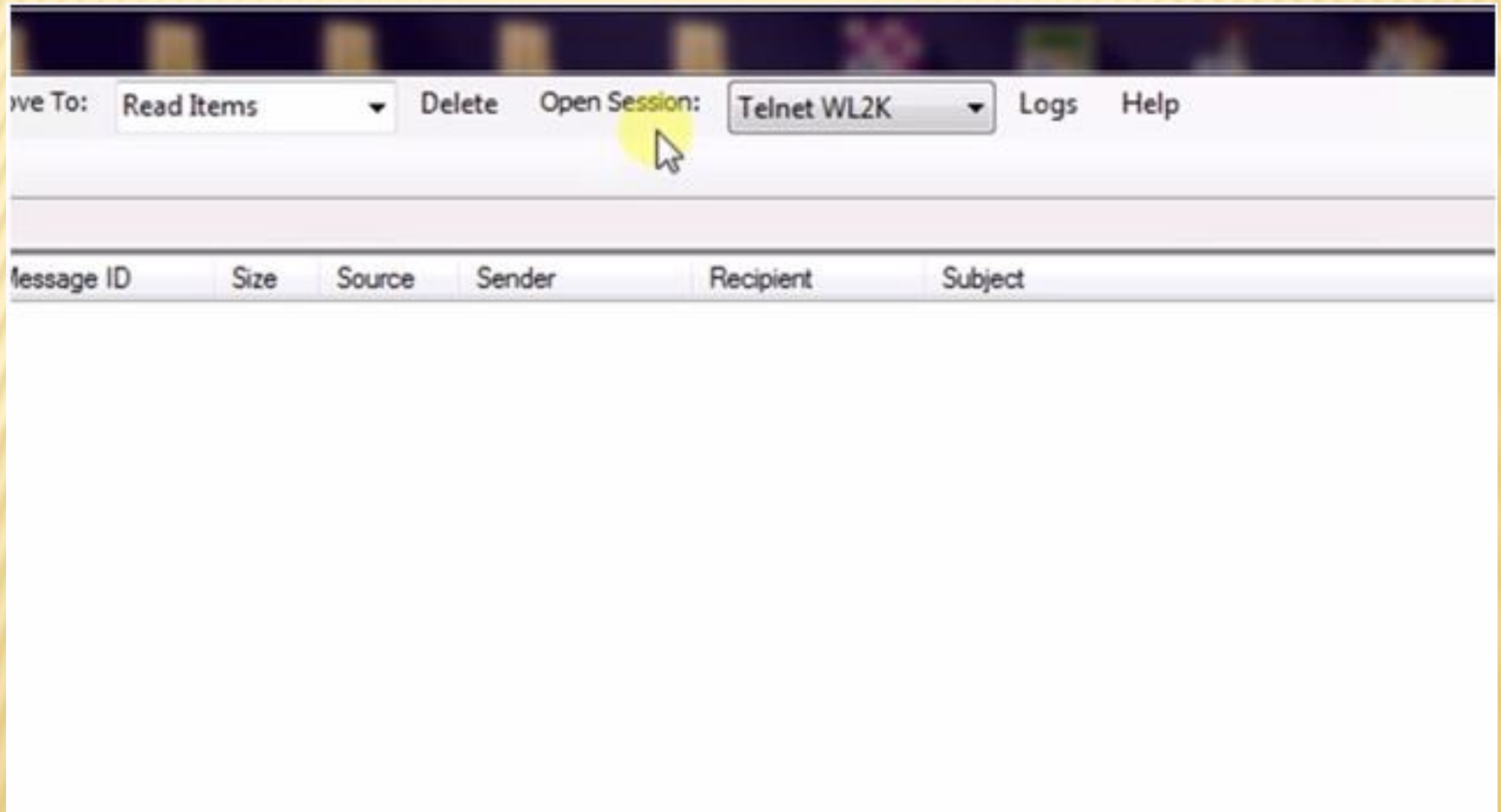
SELECT SESSION TYPE

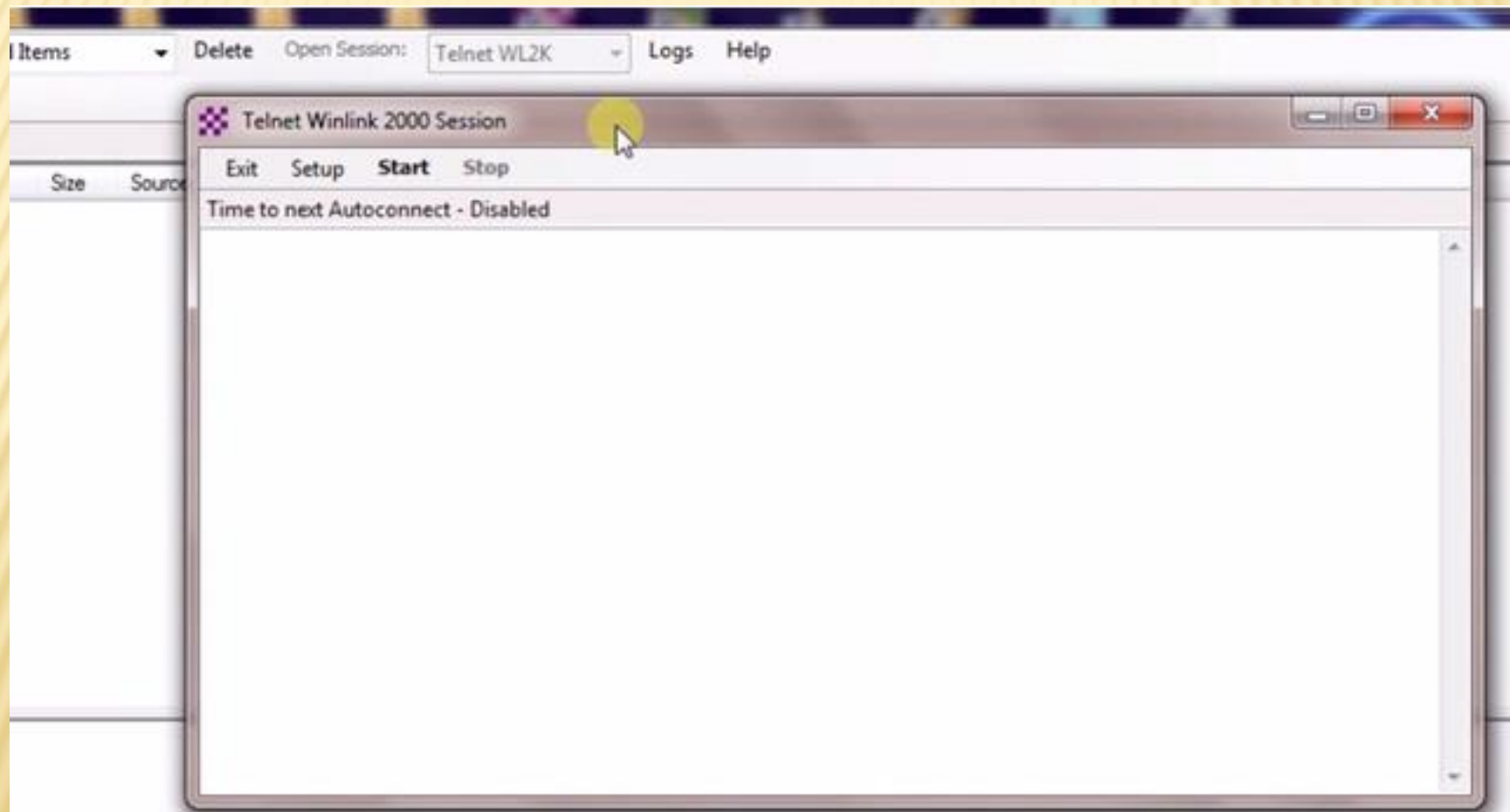


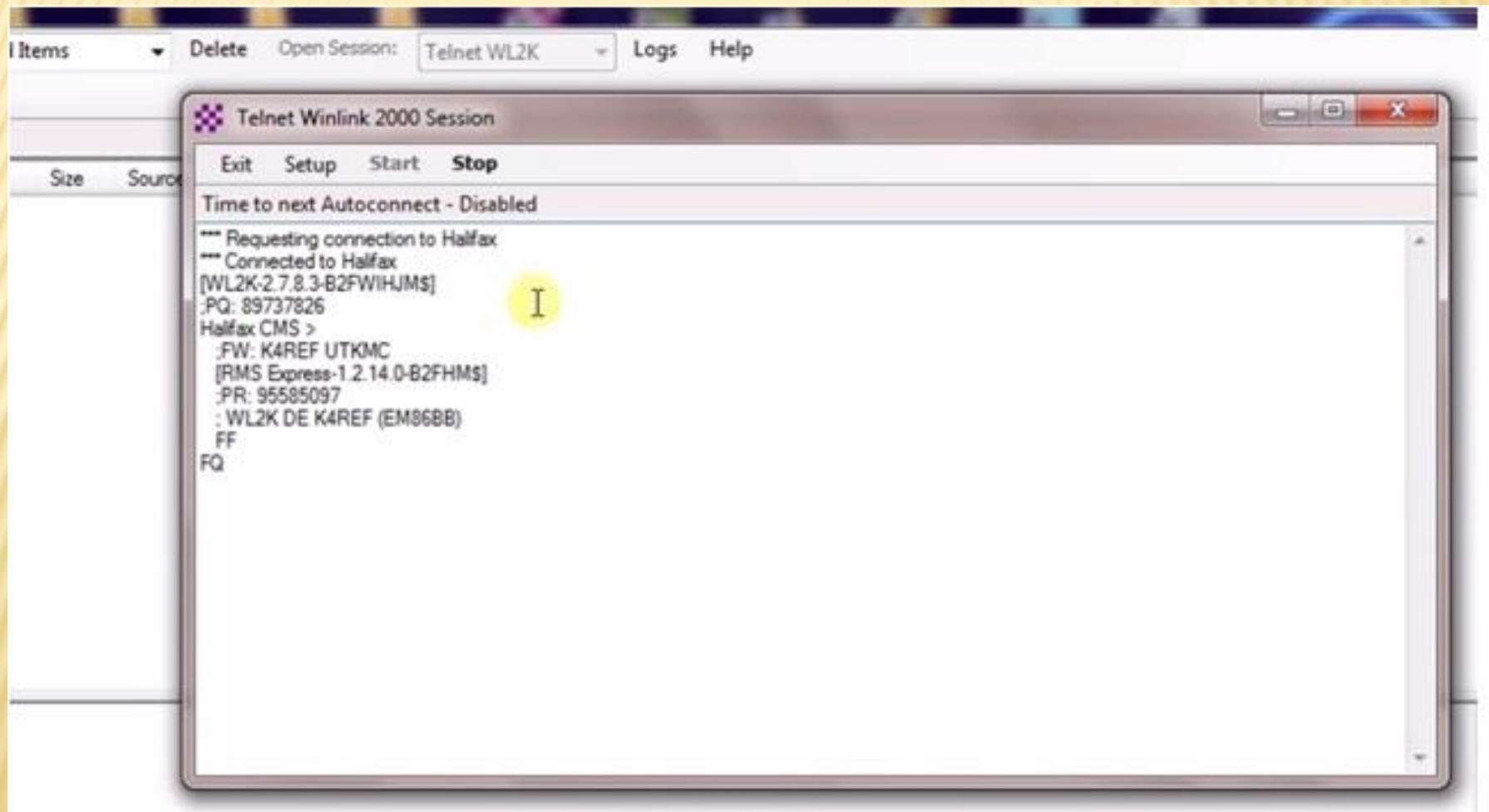
SELECT SESSION TYPE



TELNET SESSION









Telnet Winlink 2000 Session

Exit Setup **Start** Stop

Size

Source

Time to next Autoconnect - Disabled

*** Requesting connection to Halifax

*** Connected to Halifax

[WL2K-2.7.8.3-B2FWIHJMS]

:PQ: 89737826

Halifax CMS

:FW: K4REF UTKMC

[RMS Express-1.2.14.0-B2FHMS]

:PR: 95585097

: WL2K DE K4REF (EM86BB)

FF

FQ

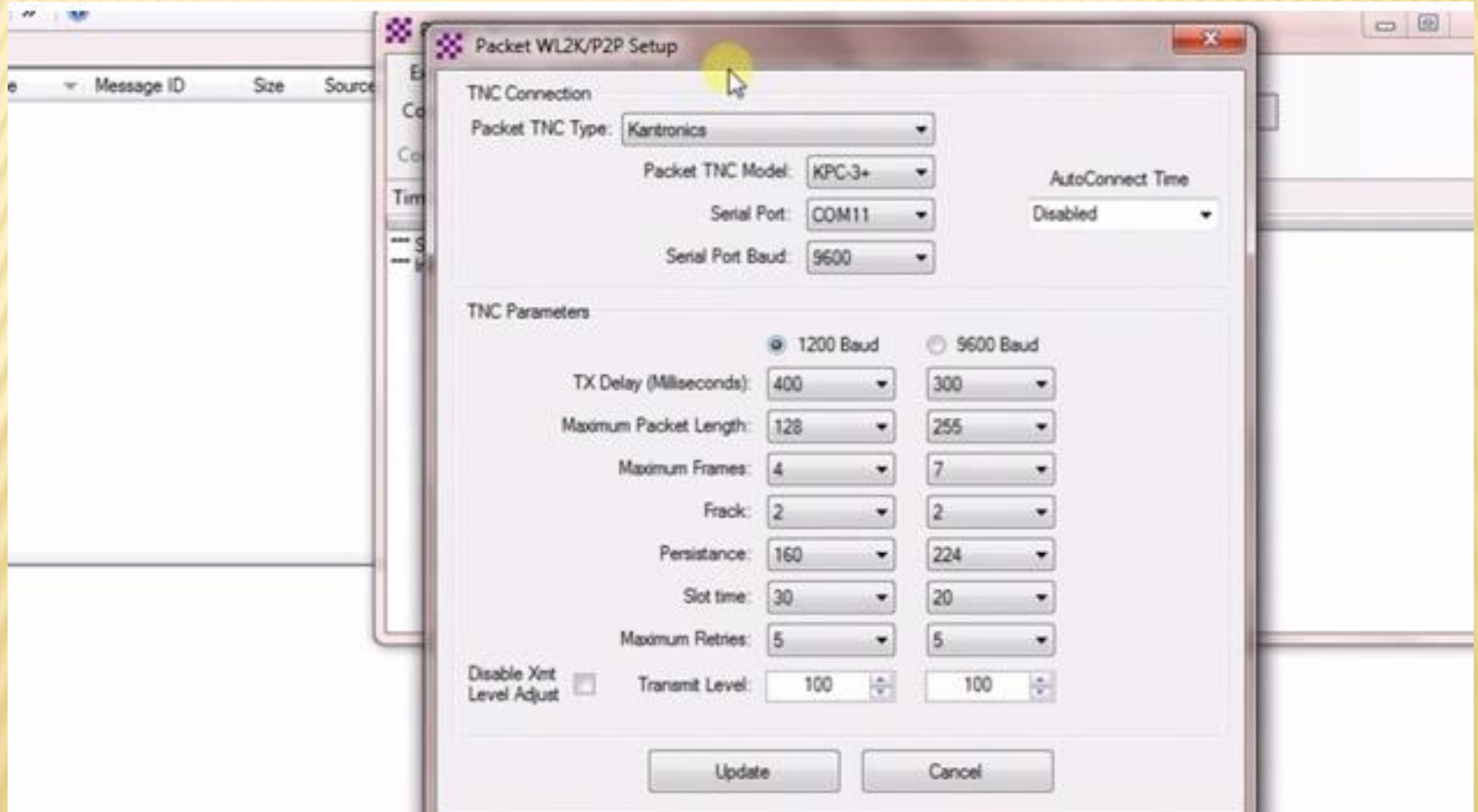
*** Disconnected

PACKET SESSION

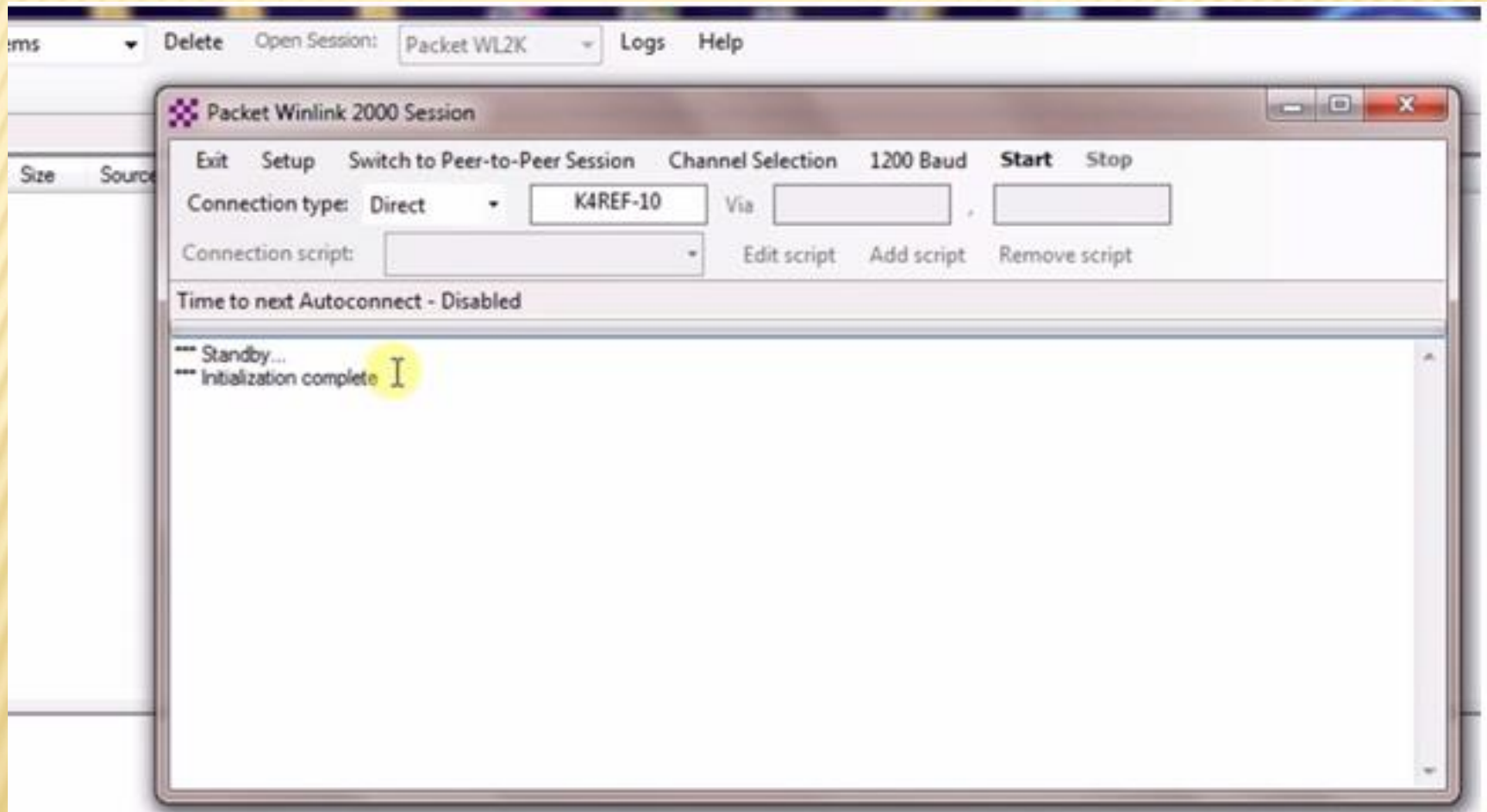
The screenshot shows a software interface for viewing network packet sessions. At the top, there is a navigation bar with the following elements: "Go:" followed by a dropdown menu currently set to "Read Items", a "Delete" button, the text "Open Session:", a dropdown menu currently set to "Packet WL2K", a "Logs" button, and a "Help" button. A mouse cursor is positioned over the "Open Session:" dropdown menu. Below the navigation bar is a table with the following headers: "Page ID", "Size", "Source", "Sender", "Recipient", and "Subject". The table body is currently empty.

Page ID	Size	Source	Sender	Recipient	Subject
---------	------	--------	--------	-----------	---------

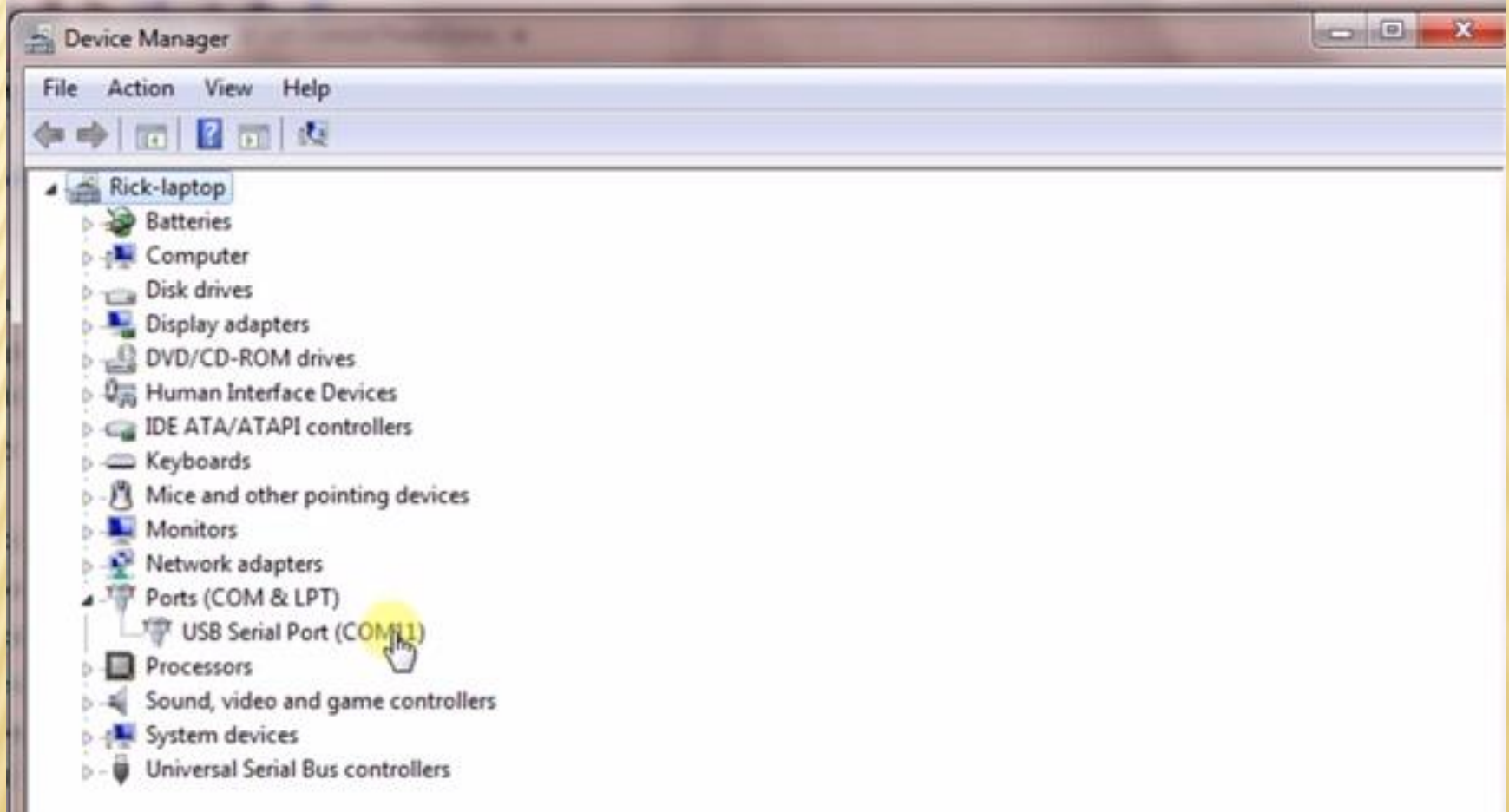
PACKET SETTINGS



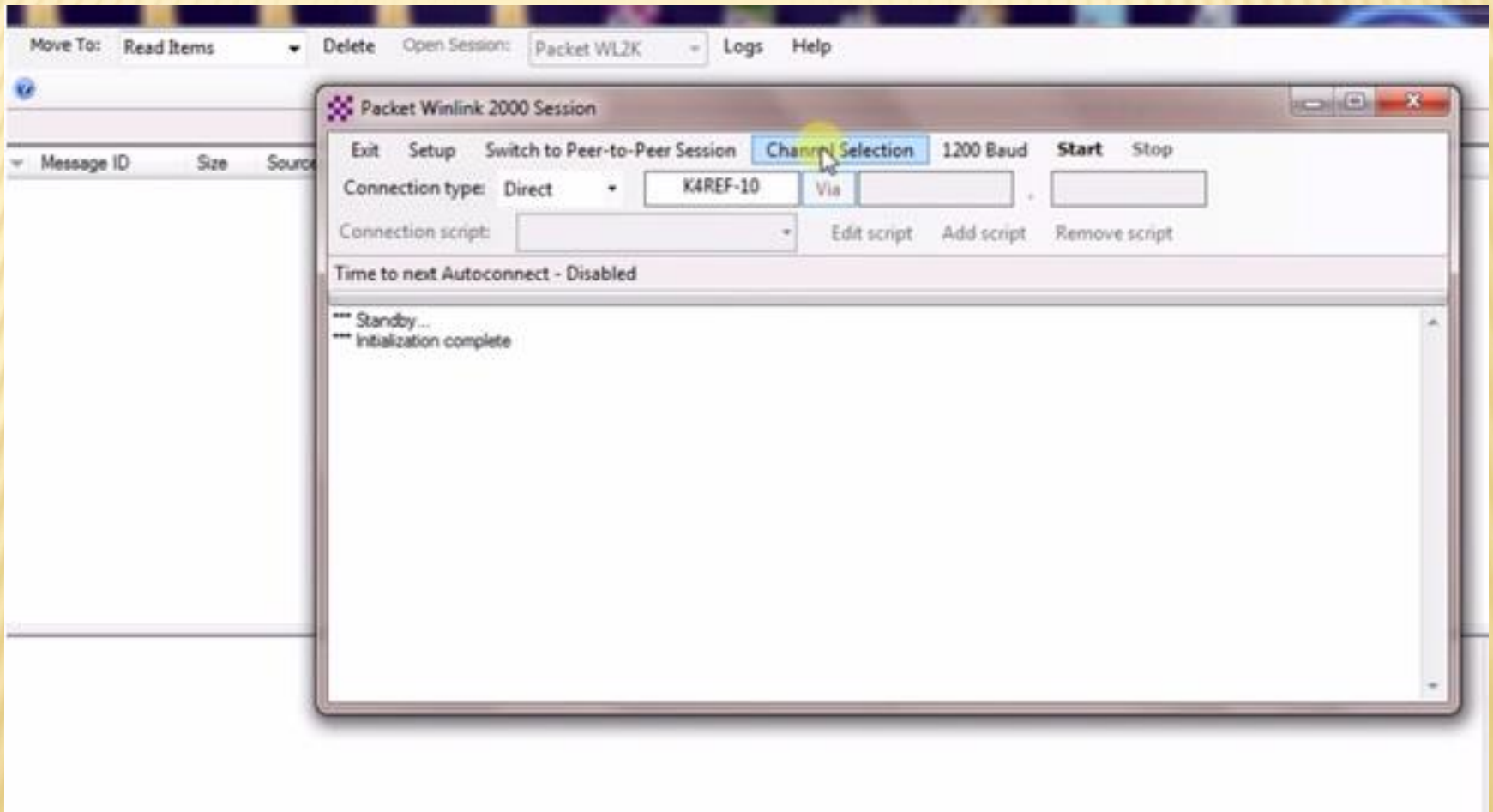
PACKET CONNECT



USE DEVICE MANAGER TO CHECK ON COM PORT SETTINGS



PACKET CHANNEL SELECTION



PACKET CHANNEL SELECTION

The image shows two overlapping windows from the Packet Winlink 2000 software. The top window, titled "Packet Winlink 2000 Session", has a menu bar with "Exit", "Setup", "Switch to Peer-to-Peer Session", "Channel Selection", "1200 Baud", "Start", and "Stop". Below the menu bar, it shows "Connection type: Direct" and a text box containing "K4REF-10". The bottom window, titled "Packet Channel Selector", has a menu bar with "Exit", "Select Channel", "Update Table", and "Update Table Via Radio". Below the menu bar, it says "Stations found within 160 kilometers of your grid square...". The main area of this window contains a table with the following data:

Callsign	Frequency (MHz)	Baud	Grid Square	Group	Distance (mi)	Bearing (Degrees)
K4REF-10	145.050	1200	EM86BB	PUBLIC	000	000
KI4HDU-10	144.390	1200	EM85fw	PUBLIC	021	113
WA4BDS-10	145.050	1200	EM85AQ	PUBLIC	026	190
WB4GUD-10	147.570	1200	EM85FF	PUBLIC	060	161
N4AA-10	145.710	1200	EM85PP	PUBLIC	071	113
K4LMP-10	145.730	1200	EM86QO	PUBLIC	079	061
N4SHD-10	145.030	1200	EM86SK	PUBLIC	083	071
W4DK-10	145.630	1200	EM85QI	PUBLIC	086	125



2014



Cache County ARES

July 15, 2015

Tyler Griffiths N7UWX

Ted McArthur AC7II

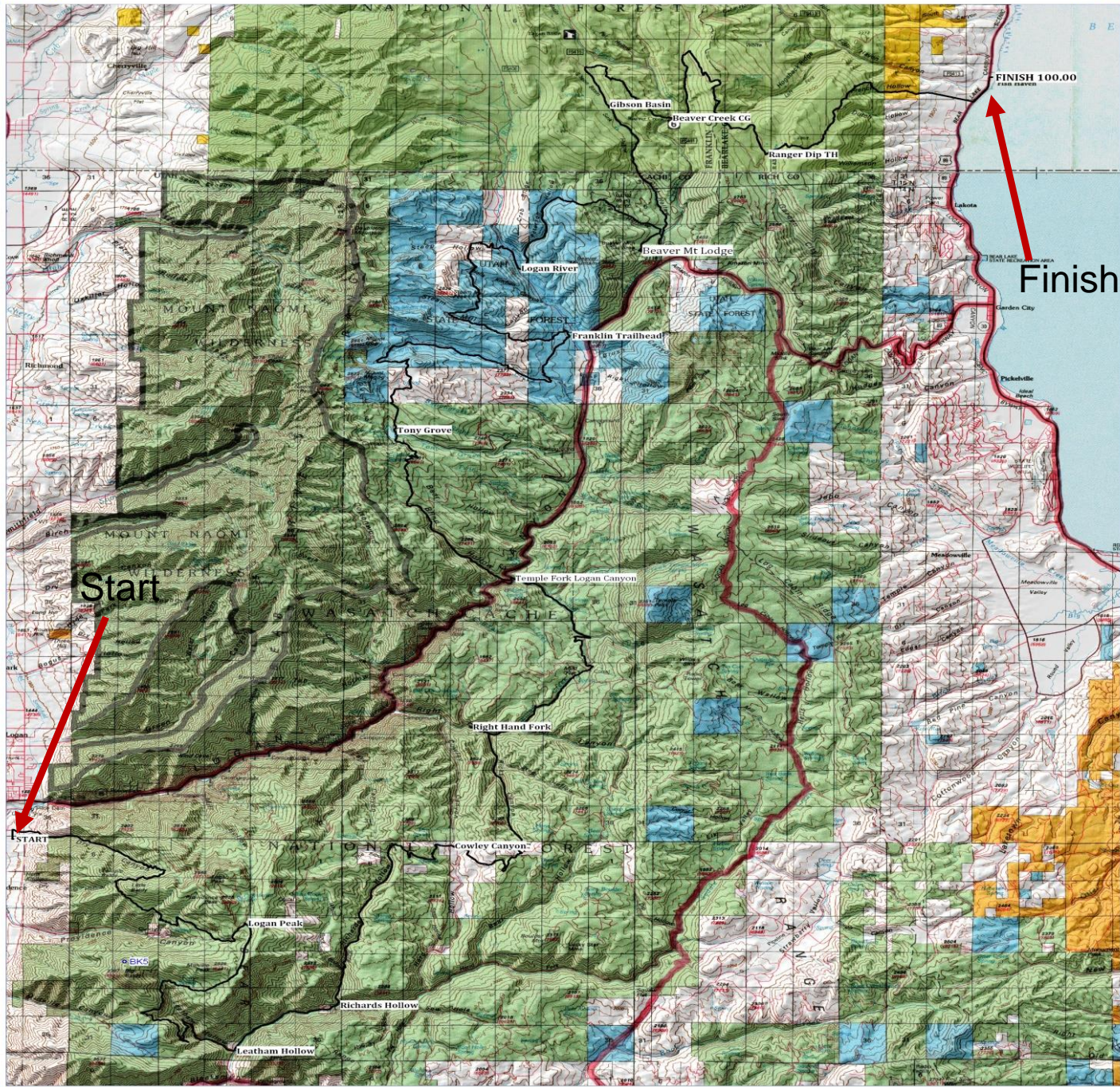
Cordell Smart KE7IK

BEAR 100 DATA ENTRY & TRANSFER

Race Route

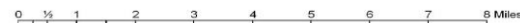
• BK1
111° 43' 19.896" W
42° 3' 58.296" N

111° 20' 24.892" W
42° 4' 6.658" N



41° 37' 41.877" N
111° 48' 0.188" W

41° 37' 50.112" N
111° 20' 16.566" W
• BK2



2014 IN & OUT TIME DATA

- ✘ 13 Aid Stations
- ✘ 310 registered. 279 runners started
- ✘ In & out time for each

$13 \times 279 \times 2 = 7254$ data points

- ✘ Plus Finish Line
- ✘ 7 seconds per item = over 8 hours of one way transmissions.

BEAR 100 - Year _____

Aid Station _____

Number	Runner #	In	Out	Number	Runner #	In	Out
1				26			
2				27			
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

BEAR 100 - Year 2014

Aid Station 13

Number	Runner #	In	Out	Number	Runner #	In	Out
1	168	23:41	23:43	26	62	4:35	4:49
2	121	0:25	0:26	27	20	4:45	4:48
3	284	0:32	0:35	28	290	4:49	5:02
4	260	0:51	0:56	29	197	5:19	5:55
5	260	1:09	1:14	30	289	5:20	5:26
6	278	1:26	1:26	31	230	5:41	5:50
7	56	1:50	1:57	32	202	5:58	6:01
8	179	2:07	2:11	33	63	6:20	6:22
9	178	2:22	2:32	34	78	6:22	6:35
10	269	2:51	2:53	35	81	6:33	6:36
11	256	2:52	2:54	36	277	6:33	6:59
12	275	2:53	2:54	37	124	6:39	6:50
13	203	2:54	2:56	38	232	6:39	6:50
14	193	3:18	3:20	39	2	6:50	6:50
15	112	3:23	3:29	40	209	7:08	7:16
16	237	3:39	3:45	41	129	7:12	7:46
17	305	3:40	3:46	42	98	7:13	8:15
18	297	4:10	4:13	43	21	7:13	8:16
19	171	4:17	4:22	44	271	7:36	8:00
20	31	4:20	4:32	45	199	7:36	7:40
21	292	4:23	4:32	46	258	7:39	7:39
22	86	4:24	4:24	47	283	7:41	7:47
23	208	4:29	4:34	48	77	7:45	7:58
24	302	4:31	4:39	49	49	7:48	8:07
25	216	4:32	4:39	50	116	7:53	7:56

6:02

7

8:4

DATA USED TO BE TRACKED WITH A PUBLIC GOOGLE SPREADSHEET

+Tyler Gmail Calendar Documents Photos Sites Web More - Tyler Griffiths Share

2011 Bear 100 Race Results ☆

File Edit View Insert Format Data Tools Help Last edit was made 64 days ago by Idoney1 Share

fx # Show all formulas X

#	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	#	Last Name	First Name	Age	Gender	Home	LGN PK IN	LGN PK OUT	LEATH IN	LEATH OUT	RICH IN	RICH OUT	CWLY IN	CWLY OUT	RH FRK IN	RH FRK O
							AID 1 IN	AID 1 OUT	AID 2 IN	AID 2 OUT	AID 3 IN	AID 3 OUT	AID 4 IN	AID 4 OUT	AID 5 IN	AID 5 OUT
3	318	Adams	Larry				916	0921			1226	1229	1458	1511	1711	1716
4	319	Adams	Roger				0837	0837			1057	1100	1256	1256		
5	320	Adler	Bob				0847	0848			1104	1105	1257	1257	1435	1440
6	321	Aguire	Andreas				0815	0815			1006	1007	1129	1132	1244	1246
7	322	Ahern	Dennis				0840	0841			1050	1051	1244	1246	1423	1428
8	323	Albrecht	Quincie				0909	0913			1159	1205	1412	1424	1617	1626
9	324	Anderson	Ryan				0837	0838			1050	1051	1244	1246	1427	1436
10	325	Angel Andrade	Julio Cesar				0843	0844			1112	1114	1308	1315	1506	1518
11	326	Arble	Kenneth				0925		1213	1216			1424	1424	1613	1617
12	327	Askew	Chris								1018	1019	1148	1149	1305	1307
13	328	Askew	Darla				0821	0822			1031	1032	1208	1211	1337	DNF
14	329	Baker	Chris				DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF
15	330	Barney	Andrew				0856	0858			1144	1148	1400	1408	1402	1555
16	331	Bartley	John				0859	0901			1136	1138	1343	1353	1545	1558
17	332	Benhammou	Daniel				0820	0820			1030	1031	1223	DNF	DNF	DNF
18	333	Benjamin	Ben				0919	0921			1209	1213	1434		1630	1632
19	334	Berriochoa	Emily				0914	0915	1220	1221			1452	1454	1701	1701
20	335	Bertot	Jeff				0822	0824			1022	1022	1156	1156	1312	1314
21	336	Beutler	Stan				0841	0842			1119	1120	1330	1332	1532	1535
22	337	Bierstedt	Michele				0848	0849			1117	1118	1317	1322	1524	???
23	338	Biesinger	Chris				WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW	WITHDREW
24	339	Blackett	Cody				0910	0913			1148	1150	1406	1412	1601	1615
25	340	Blackham	Amie				0905	0907			1120	1123	1305	1310	1433	1438
26	341	Boyce	Bedford				DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF	DNF
27	342	Brackelsberg	Chad				0818	0819			1019	1021	1202	1202	1324	1331
28	343	Bray	Daniel				0905	0908			1156	1201	1419	1427	1627	1639
29	344	Brenner	Steve				0816	0818			1022	1022	1159	1200	1328	1338
30	345	Briggs	Dave				0844	0846			1106	1108	1258	1302	1433	1445
31	346	Brown	Christopher				0834	0839			1054	1056	1254	1304	1442	1451
32	347	Buettner	Stephanie				0910	0915			1149	1157	1402	1410	1602	1612
33	348	Buffington	Marc				0836	0839			1055	1058	1305	1305	1433	1439
34	349	Burford	Levi				0834	0835	0937	0937	1055	1058	1302	1303	1447	1500
35	350	Cain	Rob				0825	0827			1025	1028	1218	1220	1346	1347
36	351	Campbell	Mindy				0840	0840			1051	1054	1248	1251	1430	1438
37	352	Carr	Derrick				0820	0821			1017	1018	1156	1205		
38	353	Cawley	Christopher				0808	0809			0954	0955	1127	1128	1242	1245
39	354	Cawthon	Larry				0906	0907			1134	1137	1337	1347	1521	1528
40	355	Chan	Dan				0919	0920			1208	1213	1417	1424	1611	1619
41	356	Chase	Jim				0849	0852			1128	1131	1322	1328	1510	1515
42	357	Chase	Jody				0856	0858			1118	1120	1306	1310	1443	1450

+ Runners Runners Sorted #

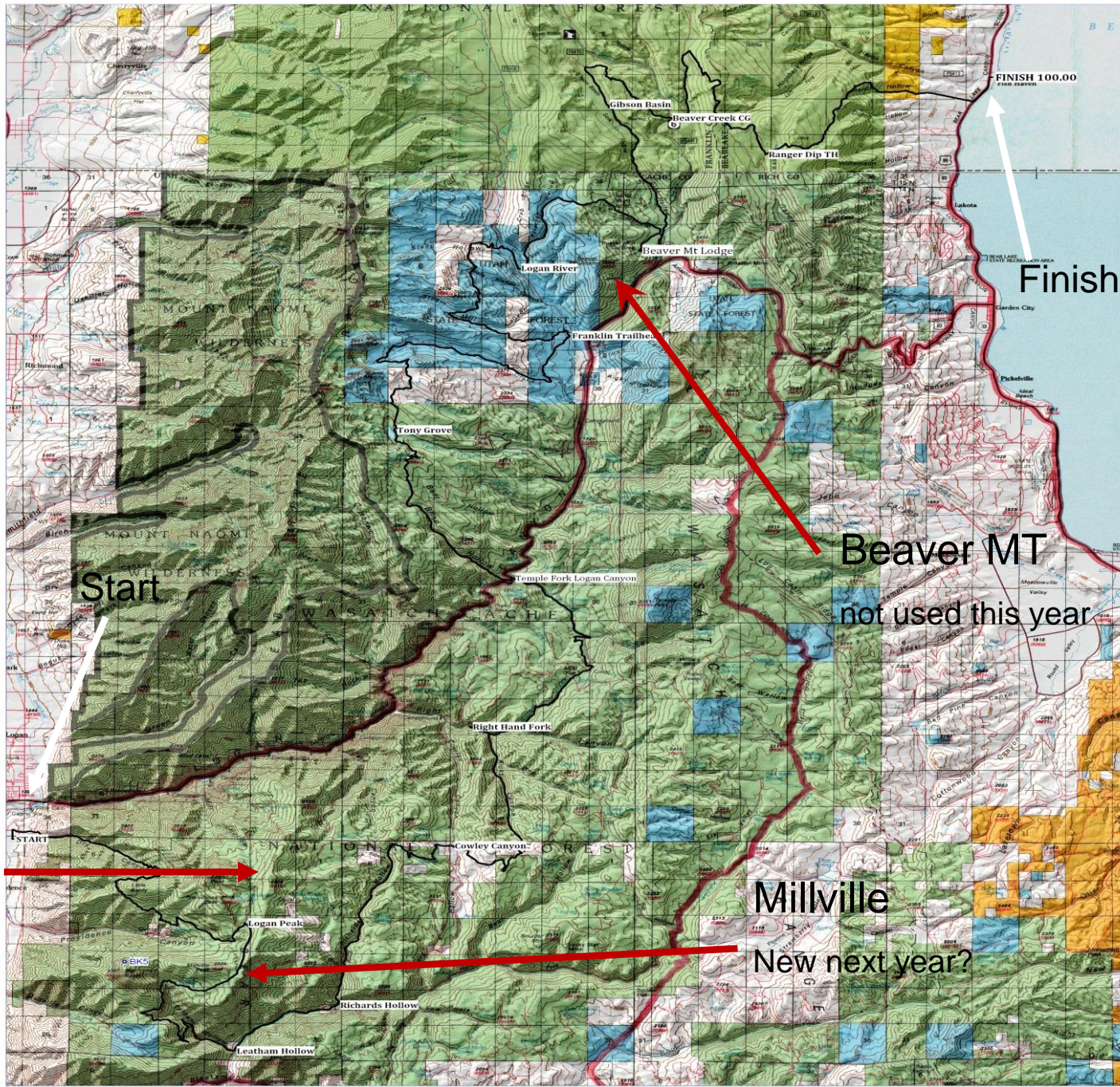
2014 PACKET/RMS STATISTICS

- ✘ Aid Stations Using Computers 13 + Finish Line
- ✘ Aid Stations using Packet - 10
 - + 1, 3, 4, 5, 6, 7, 8, 9, 10, 13
- ✘ Connect Requests = 188
- ✘ Activity Time Out = 35
- ✘ Successful Sent Files = 54

Packet Node Locations

BK1
111° 43' 19.896" W
42° 3' 58.296" N

111° 20' 24.892" W
42° 4' 6.658" N



Start

Finish

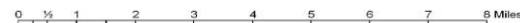
Beaver MT
not used this year

Logan
Peak

Millville
New next year?

41° 37' 41.877" N
111° 48' 0.188" W

111° 20' 16.566" W
41° 37' 50.112" N
BK2



2014 PACKET/RMS STATISTICS

- ✘ Time to send DNS/DNF .cvs 1:11
- ✘ Time to send DNS/DNF .xls 3:12
- ✘ Time to send Aid1 Final 1:03

These were one hop test. Through a digi (not direct) would probably double the time.

- ✘ Most connects took 2 – 4 minuets
- ✘ Aid Station 3 used pure packet. Took 8 – 9 minuets per file
- ✘ RMS Express packet compression does work.

ONLINE DATA ENTRY

Event

**Bear 100 2014
Webcast**

Race Clock

Elapsed Time

36:00:00

Clock Time

13:52:29

Checkpoint

Select a checkpoint... ▼

Earliest Time In: ----
Cutoff Time: ----

Time Input Mode ⓘ

Clock Time
 Elapsed Time

Status Mode ⓘ

Time In
 Time Out
 DNS

Race Day
(Day 2 is midnight after start)

Day 1 ▼

Set all times the same

Data Status

OK: 0
Error: 0

2014 Runner Report Form User: --Data Admin-- [Logout](#)

Line	Bib#	Time	Runner Status	Race Day	Update Message
1	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
2	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
3	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
4	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
5	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
6	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
7	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
8	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
9	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
10	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
Line	Bib#	Time	Runner Status	Race Day	Update Message
11	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
12	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
13	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
14	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
15	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
16	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
17	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
18	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
19	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
20	<input type="text"/>	<input type="text"/>	IN: Time In ▼	Day 1 ▼	
Line	Bib#	Time	Runner Status	Race Day	Update Message

IP: 198.185.10.2
Browser: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/37.0.2062.124 Safari/537.36

ONLINE LOOK-UP



Bear 100 2014 Webcast
September 26-27, 2014

Elapsed Time:

35:00:00

Runner:

Race Information		<< Return Station Detail								
Overall Leaders		Place	Bib No	Name	Status	Time In	Time Out	Elapsed	Gender	Age
Top Men		1	168	Brian Peterson	Finished	00:59am	----	18:59:24	M	32
Top Women		2	284	Luke Nelson	Finished	01:51am	----	19:51:21	M	34
By Checkpoint		3	121	Jason Koop	Finished	02:06am	----	20:06:58	M	35
My Favorites		4	260	Pierre Loic Deragne	Finished	02:32am	----	20:32:18	M	45
Starters		5	265	Jeason Murphy	Finished	02:42am	----	20:42:22	M	34
Finishers		6	278	Anna Frost	Finished	02:59am	----	20:59:24	F	32
Drops		7	36	Dustin Simoens	Finished	03:47am	----	21:47:46	M	26
		8	178	Gabe Joyes	Finished	04:08am	----	22:08:56	M	28
		9	173	Clay Warner	Finished	04:11am	----	22:11:51	M	31
		10	263	Elliott Barcikowski	Finished	04:50am	----	22:50:14	M	34
		11	203	John Fitzgerald	Finished	04:50am	----	22:50:43	M	27
		12	256	Ted Mahon	Finished	04:52am	----	22:52:07	M	42
		13	193	George's Dad	Finished	05:10am	----	23:10:34	M	36
		14	237	Gary Davis	Finished	05:28am	----	23:28:26	M	40
		15	112	Jeff Rome	Finished	05:34am	----	23:34:39	M	25
		16	305	Shane Martin	Finished	05:34am	----	23:34:39	M	47
		17	275	Phillip Lowry	Finished	05:55am	----	23:55:59	M	48
		18	86	Sebastien Welterlin	Finished	06:03am	----	24:03:26	M	36
		19	171	Paul Monaco	Finished	06:10am	----	24:10:20	M	39
		20	208	Jason Eichhorst	Finished	06:13am	----	24:13:46	M	38
		21	297	Matt Schrier	Finished	06:23am	----	24:23:00	M	41
		22	292	Kevin Shilling	Finished	06:28am	----	24:28:30	M	46
		23	216	Curtis Adams	Finished	06:37am	----	24:37:08	M	32
		24	31	Judd Haaland	Finished	06:42am	----	24:42:00	M	49
		25	20	Sarah Vlach	Finished	06:47am	----	24:47:32	F	43
		26	302	Ian Farris	Finished	07:06am	----	25:06:59	M	32
		27	62	Adam Takacs	Finished	07:29am	----	25:29:02	M	34
		28	290	Petra Mcdowell	Finished	07:45am	----	25:45:51	F	42
		29	289	Garrett Smith	Finished	07:49am	----	25:49:52	M	34
		30	262	Spencer Weiler	Finished	07:55am	----	25:55:28	M	29
		31	63	Amber Monforte	Finished	08:14am	----	26:14:35	F	36
		32	230	Michael Mcknight	Finished	08:19am	----	26:19:40	M	24
		33	232	Derek Call	Finished	08:39am	----	26:39:49	M	37
		34	2	Richard Kresser	Finished	08:39am	----	26:39:51	M	28
		35	124	Ashley Maudsley	Finished	08:40am	----	26:40:14	F	32
		36	197	Pablo Garcia	Finished	08:42am	----	26:42:26	M	31
		37	81	Amie Blackham	Finished	08:44am	----	26:44:12	F	35
		38	78	Seth Hales	Finished	08:44am	----	26:44:12	M	30
		39	277	Erik Syrstad	Finished	08:59am	----	26:59:14	M	36
		40	199	Anthony Garber	Finished	09:19am	----	27:19:57	M	51
		41	283	Tony Henderson	Finished	09:33am	----	27:33:36	M	36
		42	129	Jonathan Stuart	Finished	09:36am	----	27:36:33	M	31
		43	116	Cody Reeder	Finished	09:47am	----	27:47:57	M	44
		44	98	Kyle Markisich	Finished	09:50am	----	27:50:45	M	30
		45	77	Jessica Laroche	Finished	09:56am	----	27:56:47	F	35
		46	221	Erich Owen	Finished	10:02am	----	28:02:46	M	41
		47	240	Don Hantla	Finished	10:04am	----	28:04:49	M	28
		48	299	Bruce Godderidge	Finished	10:07am	----	28:07:06	M	56
		49	39	Jon Webb	Finished	10:09am	----	28:09:22	M	40
		50	238	Brian Hamos	Finished	10:19am	----	28:19:15	M	51
		51	237	Dave Malinowski	Finished	10:19am	----	28:19:15	M	44

DNS/DNF LIST

2014 Bear 100 DNS (did not start) DNF (did not finish) and Latest Info													
		System time:		10/29/2014 13:45:51									
DNS					DNF					Add More Rows As Necessary			
Line#	Bib #	First Name	Last Name	Sex	Line#	Bib #	First Name	Last Name	Sex	DNF Type	DNF Location	Time	Notes
1	14	Chris	Mead	M	1	4	Thim	Shea	M		Aid 6	2149	
2	27	Mark	Tichinel	M	2	9	Scott	Kummer	M		Aid 6	2219	
3	29	Jason	Carpenter	M	3	11	Dale	Cougot	M		Aid 12	1228	
4	32	Robert	Villani	M	4	12	Peter	Bray	M		Aid13	1352	
5	34	Paul	Smith	M	5	15	Brody	Welch	M		Aid 7	0027	
6	42	Victoria	Funk	F	6	16	Daniel	Kefford	M		Aid 12	220	
7	47	Betsy	Romney	F	7	19	Tom	Dmukauskas	M		Aid 7	1707	
8	57	Chelsey	Anderson	F	8	23	Hayley	Pollack	F		Aid 6	2219	
9	59	Jason	Thompson	M	9	25	Christian	Sorenson	M		Aid 11	641	Headed to 12
10	68	Linda	Mcfadden	F	10	30	Matthew	Hintzman	M		Aid 12	649	
11	71	Jeff	Pflueger	M	11	37	Linh	Shark	F		Aid13	1649	
12	79	Elizabeth	Desser	F	12	45	Kelly	Agnew	M		Aid 5	15:25:00	
13	88	James	Litchfield	M	13	48	Ben	Fletcher	M		Aid 8	209	
14	89	Donna	Braswell	F	14	51	Jason	Davis	M		aid 7	2219	
15	94	Erin	Euston	F	15	54	Brian	Mcneill	M		Aid 10	906	
16	95	Rob	Cook	M	16	60	Sean	Doran	M		Aid 6	1759	
17	101	Jim	Williamson	M	17	61	Drew	Meyer	M		Aid 9	706	
18	106	Robert	Youngman	M	18	64	Dave	Kanus	M		Aid 13	1354	

RUNNER TIME ENTRY

- ✘ Software Time Entry.

 - + Bear100win-v5.exe

 - ✘ Authors Cordell Smart KE7IK, Andrew Smart.

RUNNER TIME ENTRY

✘ Start the exe.

BEAR 100 Race

File Settings Tools Help

No Aid Station Set

11:27:06 28 Oct

AGWPE Access
Your Callsign:
Connection: **Disconnected**

DB_Station Access
DB_Station Callsign:
Connection: **Disconnected**

IN
Enter Racer #:

Enter

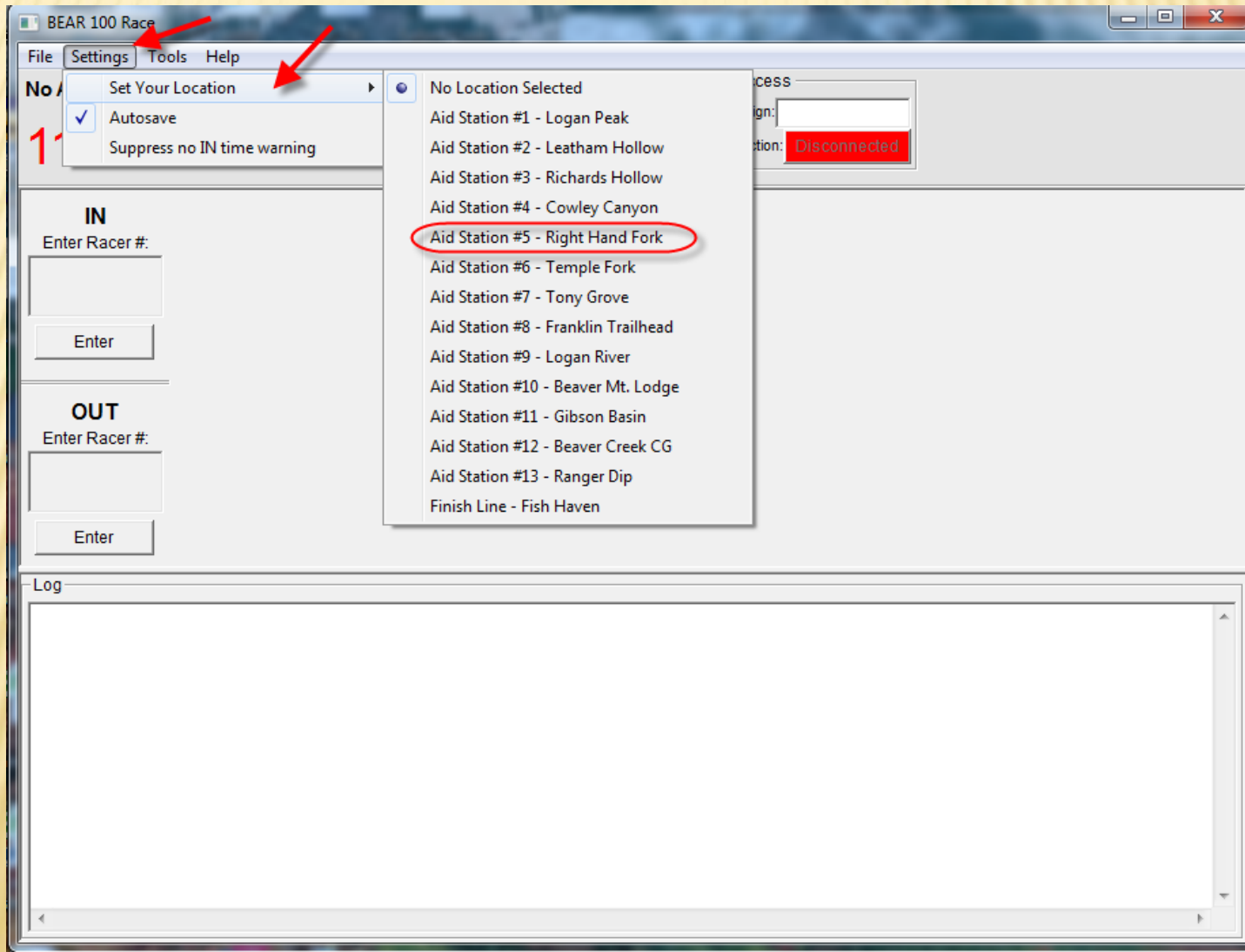
OUT
Enter Racer #:

Enter

Log

RUNNER TIME ENTRY

- ▣ Pick the Aid Station Location.



RUNNER TIME ENTRY

BEAR 100 Race

File Settings Tools Help

Aid Station #5 - Right Hand Fork

11:35:29 28 Oct

~~AGWPE Access~~ ~~DB_Station Access~~
~~Your Callsign:~~ ~~DB_Station Callsign:~~
~~Connection: Disconnected~~ ~~Connection: Disconnected~~

Future Implementation

IN	Sequence	X	Runner#	In Time	Out Time	Notes
Enter Racer #:	21		258	13:04:23 26 Sep	13:06:45 26 Sep	
456	20		297	13:04:15 26 Sep	13:04:15 26 Sep	
Enter	19		206	13:04:04 26 Sep	13:26:41 26 Sep	Did not see him leave
	18		269	13:03:45 26 Sep	13:03:45 26 Sep	
	17				13:05:55 26 Sep	
	16				12:55:45 26 Sep	
	15				12:54:31 26 Sep	
OUT	14		119	12:52:03 26 Sep	12:55:16 26 Sep	Prev. OUT: 12:54:52 26 Sep.
Enter Racer #:	13		278	12:52:57 26 Sep	13:02:12 26 Sep	Prev. IN: 12:52:01 26 Sep.
	12		120	12:39:55 26 Sep	12:43:19 26 Sep	
	11		103	12:38:50 26 Sep	DNF	
Enter	10				12:41:00 26 Sep	
	9				12:40:54 26 Sep	
	8				12:30:17 26 Sep	
	7		121	12:27:30 26 Sep	12:27:30 26 Sep	
	6		266	12:24:36 26 Sep	15:07:51 26 Sep	Prev. OUT: 12:26:57 26 Sep.
	5		168	12:20:38 26 Sep	12:21:25 26 Sep	
	4		212	12:20:24 26 Sep	12:22:27 26 Sep	
	3		275	12:20:21 26 Sep	12:25:01 26 Sep	
	2		284	12:10:30 26 Sep	12:20:02 26 Sep	
	1		260	12:09:06 26 Sep	12:12:13 26 Sep	

Log

Data Entry "IN"

Data Entry "OUT"

RUNNER TIME ENTRY

1. Several ways to enter it to Data Base with times.
2. For IN with number in the IN Box hit the Enter Box below, or hit the + Key.

The screenshot shows the 'BEAR 100 Race' software interface. At the top, there is a menu bar with 'File', 'Settings', 'Tools', and 'Help'. Below the menu bar, the title 'Aid Station #5 - Right Hand Fork' is displayed. To the right of the title, there are two sections for database access: 'AGWPE Access' and 'DB_Station Access'. Both sections have fields for 'Your Callsign:' and 'DB_Station Callsign:', and a 'Connection:' status indicator that says 'Disconnected'.

In the center, a large red digital display shows the time '11:47:59 28 Oct'. Below this, there is a table with columns: 'IN', 'Sequence', 'X', 'Runner#', 'In Time', 'Out Time', and 'Notes'. The 'IN' column has a sub-label 'Enter Racer #' and a large green number '456' in a box. Below the 'IN' input is an 'Enter' button circled in red. A blue callout box with the text 'Or " + " Key' points to the 'Enter' button and the '456' input. A red arrow points from the '456' input to the 'Runner#' column of the table, specifically to the row with Runner# 456 and In Time 11:47:29 28 Oct.

IN	Sequence	X	Runner#	In Time	Out Time	Notes
Enter Racer #:	262		456	11:47:29 28 Oct		
456	261		82	17:50:40 26 Sep	18:03:43 26 Sep	
Enter	260		15	17:49:32 26 Sep	18:26:55 26 Sep	
	259		184	17:34:29 26 Sep	17:45:57 26 Sep	
	258		177	17:34:26 26 Sep	17:45:55 26 Sep	
	257			17:34:26 26 Sep	17:45:50 26 Sep	
	256			17:34:26 26 Sep	17:45:21 26 Sep	
	255			17:34:26 26 Sep	17:45:28 26 Sep	
	254			17:34:26 26 Sep	17:45:52 26 Sep	
	253		198	17:28:04 26 Sep	17:52:21 26 Sep	
	252		192	17:27:14 26 Sep	17:52:18 26 Sep	
	251		126	17:22:32 26 Sep	17:28:35 26 Sep	
	250		201	17:22:25 26 Sep	DNF	
	249		295	17:14:50 26 Sep	17:22:39 26 Sep	
	248		257	17:14:46 26 Sep	17:23	
	247		147	17:14:44 26 Sep	17:32:25 26 Sep	
	246		94		17:10:52 26 Sep	
	245		150	17:08:20 26 Sep	17:11:23 26 Sep	
	244		130	17:08:01 26 Sep	17:26	
	243		128	17:07:56 26 Sep	17:26	
	242		127	17:07:53 26 Sep	17:26	
	241		234	17:03:28 26 Sep	17:12:42 26 Sep	

At the bottom of the window, there is a 'Log' section with a scrollable area.

RUNNER TIME ENTRY

1. For OUT with the runner number in the OUT Box hit the Enter Box Below, or hit the - Key.

The screenshot shows the 'BEAR 100 Race' software interface. At the top, it displays 'Aid Station #5 - Right Hand Fork' and a large red digital clock showing '11:53:44 28 Oct'. Below the clock are two connection status boxes: 'AGWPE Access' and 'DB_Station Access', both showing 'Connection: Disconnected'. The main part of the interface is a table with columns: 'IN', 'Sequence', 'X', 'Runner#', 'In Time', 'Out Time', and 'Notes'. The 'IN' column has an input field 'Enter Racer #' and an 'Enter' button. The 'OUT' column has an input field 'Enter Racer #' containing the number '456' and an 'Enter' button. A blue callout box with the text 'Or " - " Key' points to the 'Enter' button in the OUT section. A red arrow points from the 'Enter' button in the OUT section to the 'Out Time' column of the first row in the table, which shows '11:52:11 28 Oct'. The table contains multiple rows of runner data with their respective sequence numbers, runner IDs, and times.

IN	Sequence	X	Runner#	In Time	Out Time	Notes
Enter Racer #:	262		456	11:47:29 28 Oct	11:52:11 28 Oct	
<input type="text"/>	261		82	17:50:40 26 Sep	18:03:26 26 Sep	
<input type="text"/>	260		15	17:49:32 26 Sep	18:26:55 26 Sep	
<input type="text"/>	259		184	17:34:29 26 Sep	17:45:57 26 Sep	
<input type="text"/>	258		177	17:34:26 26 Sep	17:45:55 26 Sep	
<input type="text"/>	257		36	17:31:32 26 Sep	17:34:50 26 Sep	
<input type="text"/>	256		37	17:31:23 26 Sep	17:34:21 26 Sep	
<input type="text"/>	255		162	17:28:58 26 Sep	17:32:28 26 Sep	
<input type="text"/>	254		99	17:28:13 26 Sep	17:48:52 26 Sep	
<input type="text"/>	253		198	17:28:04 26 Sep	17:52:21 26 Sep	
<input type="text"/>	252		192	17:27:14 26 Sep	17:52:18 26 Sep	
<input type="text"/>	251		126	17:22:32 26 Sep	17:28:35 26 Sep	
<input type="text"/>	250		204	17:22:25 26 Sep	DNF	
<input type="text"/>	249				17:39 26 Sep	
<input type="text"/>	248					
<input type="text"/>	247				17:25 26 Sep	
<input type="text"/>	246		94		17:10:52 26 Sep	
<input type="text"/>	245		150	17:08:20 26 Sep	17:11:23 26 Sep	
<input type="text"/>	244		130	17:08:01 26 Sep	1726	
<input type="text"/>	243		128	17:07:56 26 Sep	1726	
<input type="text"/>	242		127	17:07:53 26 Sep	1726	
<input type="text"/>	241		234	17:03:28 26 Sep	17:12:42 26 Sep	

RUNNER TIME ENTRY

1. For IN & OUT put the runner Number in either box and hit “/” key.

BEAR 100 Race

File Settings Tools Help

Aid Station #5 - Right Hand Fork

11:55:30 28 Oct

AGWPE Access
Your Callsign:
Connection: **Disconnected**

DB_Station Access
DB_Station Callsign:
Connection: **Disconnected**

	Sequence	X	Runner#	In Time	Out Time	Notes
IN Enter Racer #: <input type="text"/>	262		456	11:47:29 28 Oct	11:52:11 28 Oct	
<input type="button" value="Enter"/>	261		82	17:50:40 26 Sep	18:03:43 26 Sep	
	260		15	17:49:32 26 Sep	18:26:55 26 Sep	
	259		184	17:34:29 26 Sep	17:45:57 26 Sep	
	258		177	17:34:26 26 Sep	17:45:55 26 Sep	
	257		36	17:31:32 26 Sep	17:34:50 26 Sep	
	256		37			
OUT Enter Racer #: <input type="text" value="456"/>	255		101			
<input type="button" value="Enter"/>	254		99			
	253		198			
	252		192			
	251		126	17:22:32 26 Sep	17:28:35 26 Sep	
	250		201	17:22:25 26 Sep	DNF	
	249		295	17:14:50 26 Sep	17:22:39 26 Sep	
	248		257	17:14:46 26 Sep	1723	
	247		147	17:14:44 26 Sep	17:32:25 26 Sep	
	246		94		17:10:52 26 Sep	
	245		150	17:08:20 26 Sep	17:11:23 26 Sep	
	244		130	17:08:01 26 Sep	1726	
	243		128	17:07:56 26 Sep	1726	
	242		127	17:07:53 26 Sep	1726	
	241		234	17:03:28 26 Sep	17:12:42 26 Sep	

Log

KEYBOARD SHORTCUTS

- ✘ Numeric key " + " adds the IN Time for the runner.
- ✘ Numeric key " - " adds the OUT Time for the runner.
- ✘ Numeric key " / " adds the same time to the IN & OUT Time for the runner.

Attaching a number pad either USB or wireless will greatly enhance data entry!

RFID



GETTING DATA FILE TO SEND

1. Periodically send a file to keep the Master Database fairly up-to-date
2. Open the Data file It is in the folder that the exe. On my computer C:/Bear100app-V5/Backup.csv
3. Open it with Excel
4. Do a Save As with name you will remember and tells you what data is there. Like the Sequence Number so you know where you are.

GETTING DATA FILE TO SEND

1. Go ahead save and close the file. Save the file with “Aid Sta # and Seq #”.
2. Then move on to RMS Express to send file.

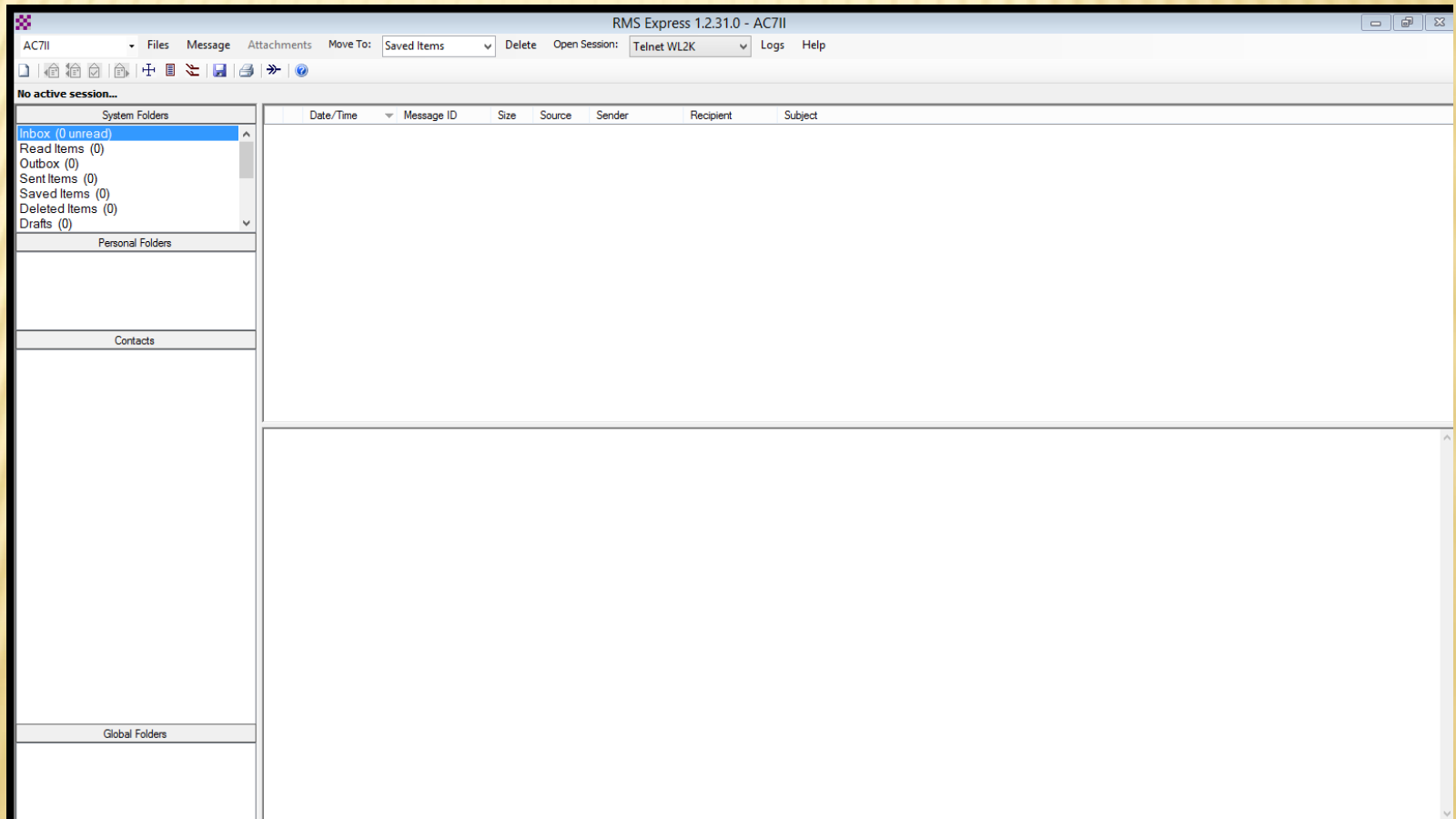
times.csv Microsoft Excel

BEAR 100	Aid Station	Sequence	Runner#	In Time	Out Time	Notes
1	BEAR 100	Aid Station	All times are based off of the system they were recorded on.			
2	X	Sequence	Runner#	In Time	Out Time	Notes
3		1	838	9/28/2014 8:24	9/28/2014 8:24	
4		2	724	9/28/2014 8:25	9/28/2014 8:25	
5		3	712	9/28/2014 8:25	9/28/2014 8:25	
6		4	600	9/28/2014 8:26	9/28/2014 8:26	
7		5	599	9/28/2014 8:26	9/28/2014 8:26	
8		6	821	9/28/2014 8:26	9/28/2014 8:26	
9		7	662	9/28/2014 8:26	9/28/2014 8:26	
10		8	705	9/28/2014 8:26	9/28/2014 8:26	
11		9	677	9/28/2014 8:26	9/28/2014 8:26	
12		10	825	9/28/2014 8:26	9/28/2014 8:26	
13		11	688	9/28/2014 8:29	9/28/2014 8:29	
14		12	680	9/28/2014 8:29	9/28/2014 8:29	
15		13	759	9/28/2014 8:29	9/28/2014 8:29	
16		14	750	9/28/2014 8:29	9/28/2014 8:29	
17		15	835	9/28/2014 8:29	9/28/2014 8:29	
18		16	747	9/28/2014 8:29	9/28/2014 8:29	
19		17	608	9/28/2014 8:29	9/28/2014 8:29	
20		18	590	9/28/2014 8:29	9/28/2014 8:29	
21		19	834	9/28/2014 8:29	9/28/2014 8:29	
22		20	812	9/28/2014 8:29	9/28/2014 8:29	
23		21	672	9/28/2014 8:30	9/28/2014 8:30	
24		22	632	9/28/2014 8:30	9/28/2014 8:30	
25		23	764	9/28/2014 8:30	9/28/2014 8:30	
26		24	685	9/28/2014 8:30	9/28/2014 8:30	
27		25	629	9/28/2014 8:30	9/28/2014 8:30	
28		26	630	9/28/2014 8:30	9/28/2014 8:30	
29		27	732	9/28/2014 8:31	9/28/2014 8:31	
30		28	777	9/28/2014 8:31	9/28/2014 8:31	
31		29	710	9/28/2014 8:31	9/28/2014 8:31	
32		30	814	9/28/2014 8:32	9/28/2014 8:32	
33		31	813	9/28/2014 8:32	9/28/2014 8:32	
34		32	700	9/28/2014 8:32	9/28/2014 8:32	

SENDING FILE TO NET CONTROL

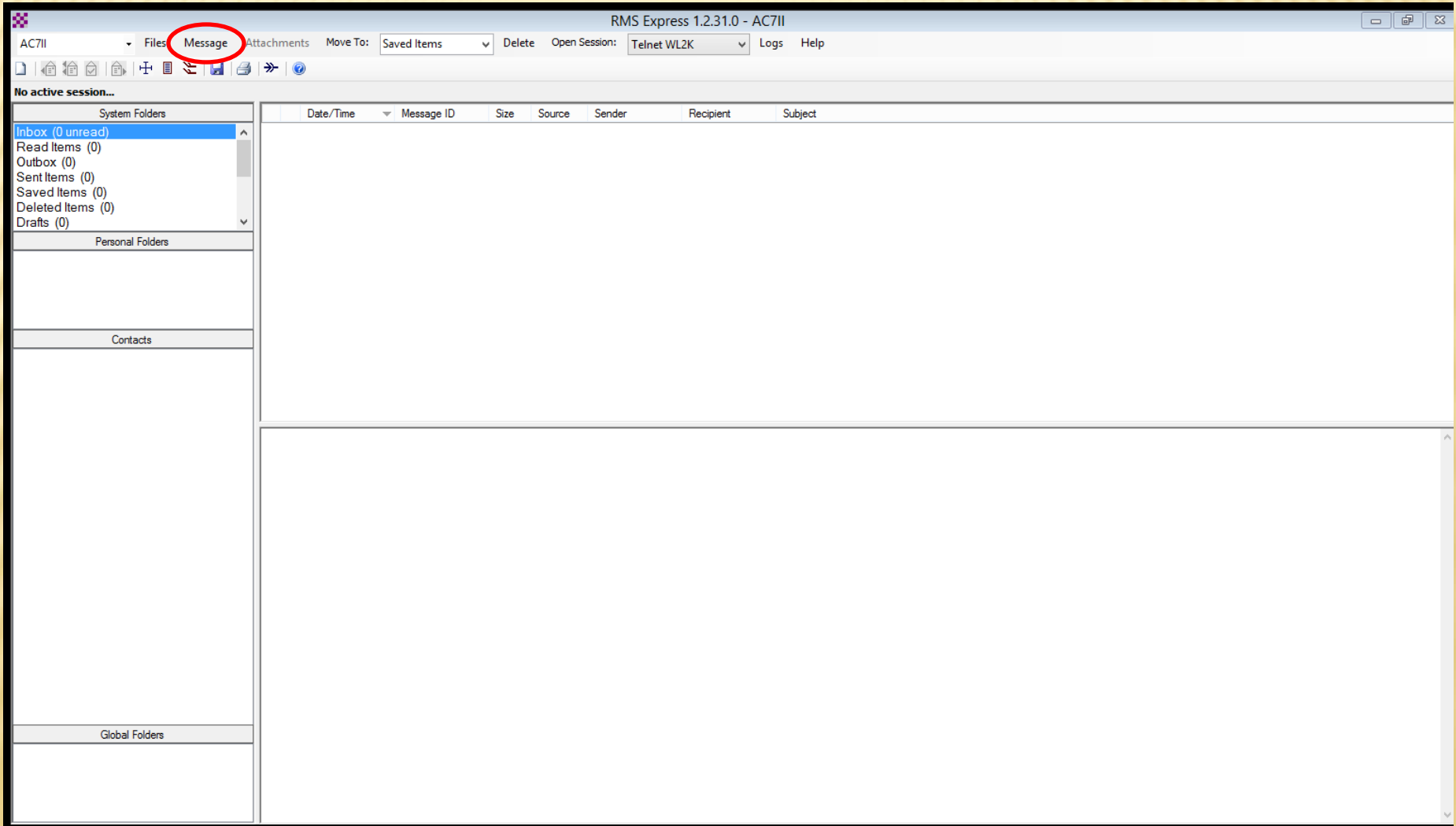
1. Software Packet delivery of Data file.
 - + RMS Express. Authors Winlink Development Team.

2.



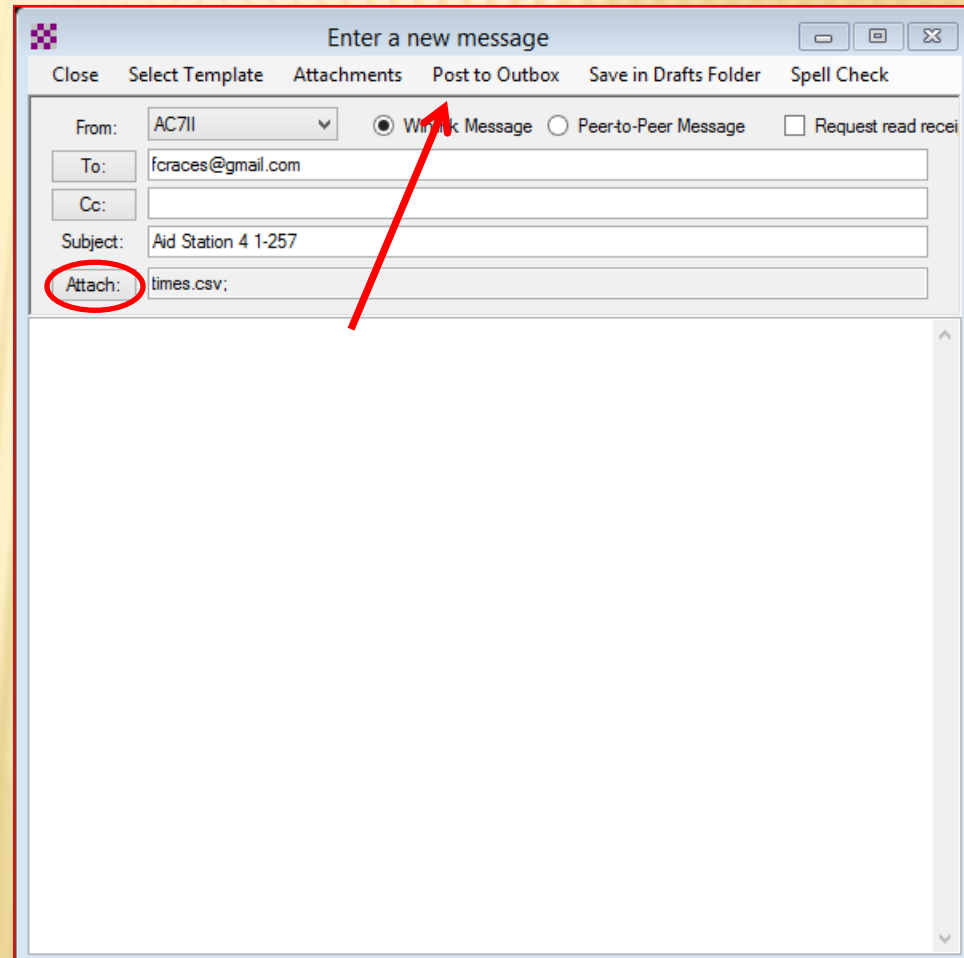
SENDING FILE TO NET CONTROL

1. Open up the Message Window.



SENDING FILE TO NET CONTROL

- + To:
someone@gmail.com
- + Subject: Aid Sta # and
Seq #
- + Attach: Find the File
that you created and
attach
- + Then Click on Post to
Out Box



Enter a new message

Close Select Template Attachments Post to Outbox Save in Drafts Folder Spell Check

From: AC7II Work Message Peer-to-Peer Message Request read receipt

To: fcraces@gmail.com

Cc:

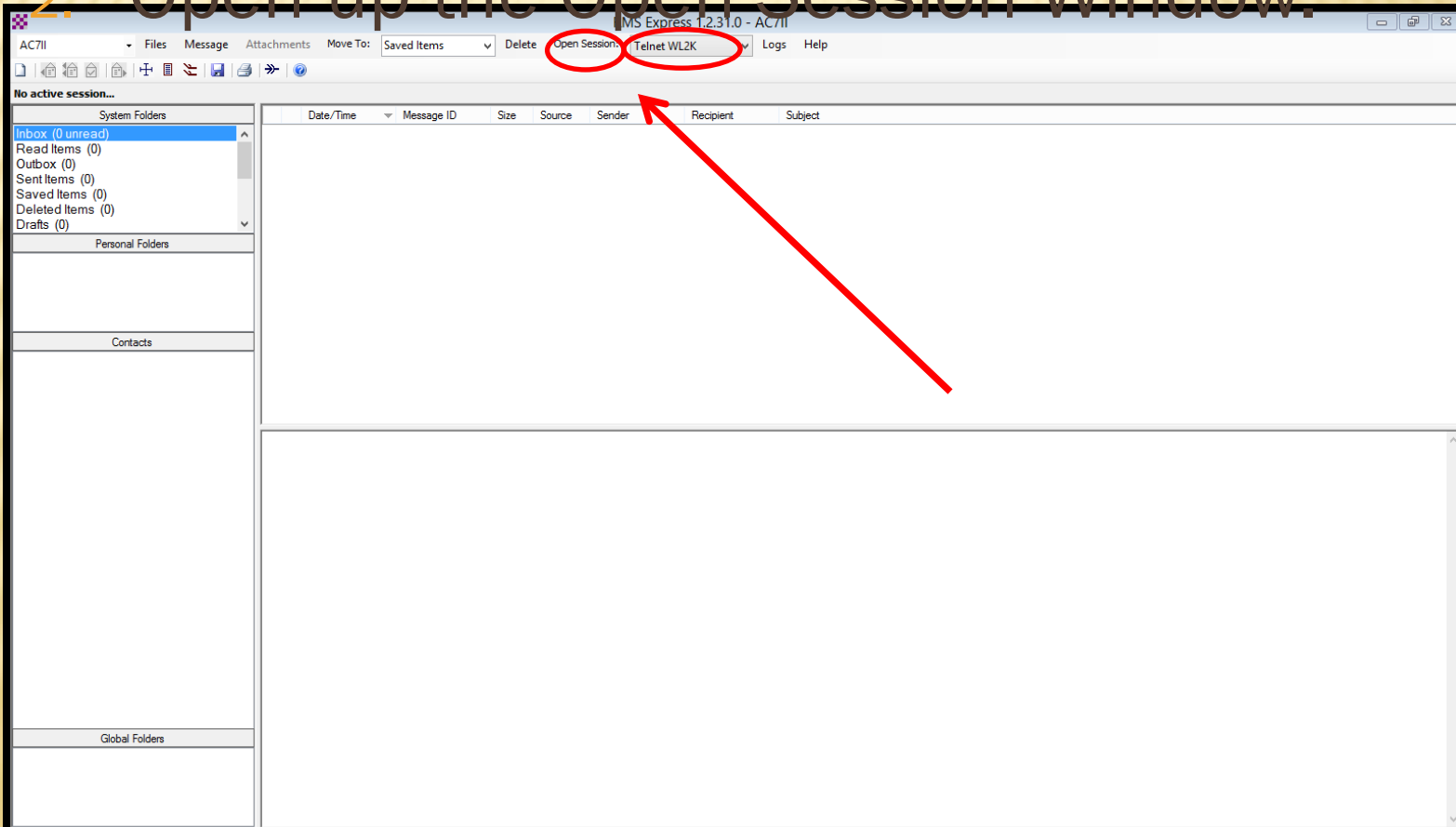
Subject: Aid Station 4 1-257

Attach: times.csv;

SENDING FILE TO NET CONTROL

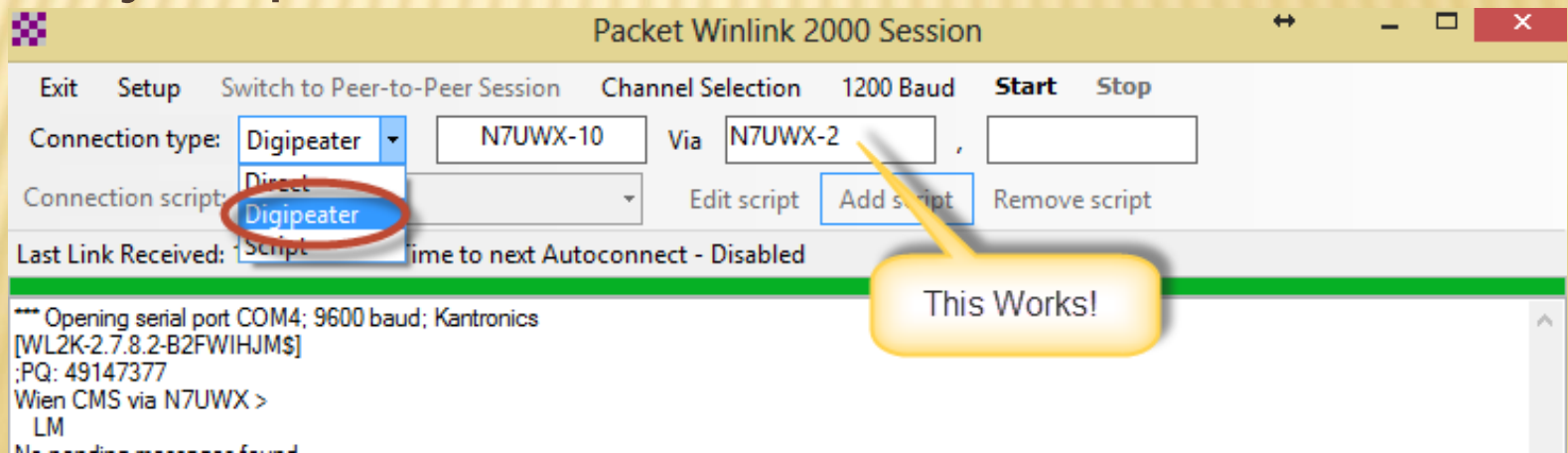
1. Select proper transmission Telnet WL2K, Packet WL2K or WINMOR WL2K

2. Open up the Open Session Window.



SENDING FILE TO NET CONTROL

1. Select Digipeater
2. Use N7UWX-10 via N7UWX-2 this will Digipeat thru Mt Logan (N7UWX-2) then connect to The Sheriffs Office (N7UWX-10)
3. Then Click Start. This should send the File that you put n the Outbox.



PACKET/RMS EXPRESS PROBLEMS

- ✘ Time outs
 - + Probably too many trying at the same time
 - + Poor signal
- ✘ Email's with no or non-descriptive Subject line
 - + Subject needs to be similar to file name
- ✘ Email's with the same file name every time
 - + File names need to show Aid station and order sent
- ✘ Email's with no text (description)

NET CONTROL DATA ENTRY PROBLEMS

- ✘ Data Entry Was Slow
- ✘ File Names
- ✘ Subject Lines
- ✘ Others?

SUBJECT LINE EXAMPLES

KG7AFQ, me (2)

//WL2K Final csv from Aid #13 - I

KF7TDP, me (2)

//WL2K Beaver Mtn Aid 10 Email 3 - F

KG7AFL, me (3)

//WL2K Up Date - Forwarded

Josh, me (5)

Beaver Mtn Aid 10 -

KG7AFM (2)

//WL2K AS 9 packet #4 - <No message body>

KG7LBP, me (2)

//WL2K Tony Grove 241-251 - F

N7YTL

//WL2K Aid Station # 5 times to line 261 - <No message body>

N7YTL

//WL2K Aid # 5 times to line 261 - <No message body>

FILE NAME EXAMPLES

- AID4_1.csv
- AID4_2.csv
- aid4_3.csv
- aid4_5.csv
- aid4_6.csv
- aid4_7.csv
- aid4_9.csv
- aid4_10.csv
- aid4_12.csv
- aid4_13.csv
- aid4_14.csv
- aid4KevinFinal.csv

Type
Size
Date

Aid6times_1-7.csv	9/28/201
Aid6times_8-36.csv	10/2/201
Aid6times_37-69.csv	10/2/201
Aid6times_70-108.csv	10/2/201
Aid6times_109-164.csv	9/28/201
Aid6times_165-237.csv	10/2/201
Aid6times_238-248.csv	10/2/201
Aid6times_249-262.csv	9/28/201

Aid-8.1.csv	9/
Aid-8.3.csv	9/
Aid-8.4.csv	9/
aid10_0102.csv	10
Aid10_0443.csv	10
Aid10_2110.csv	9/
AS# 5 line 151 to 220.csv	9/
AS# 5 times to line 261.csv	10
AS# 5 to line 250.csv	10
AS#5 line 11 to line 40 aid#5.csv	10
AS#5 line 41 to 65 aid # 5.csv	10
AS#5 to line 10 aid#5.csv	10
AS#5line 66 to line 110 aid#5.csv	10

times-AS#7 (1).csv
times-AS#7.csv
times-AS#9 (1).csv
times-AS#9 (2).csv
times-AS#9 (3).csv
times-AS#9 (4).csv
TIMES-AS#9 (5).csv
TIMES-AS#9 (6).csv
TIMES-AS#9 (A1).csv
TIMES-AS#9 (A2).csv
TIMES-AS#9 (A3).csv
TIMES-AS#9(7).csv
times-AS#9.csv

BEST PRACTICES

- ✘ Subject : AID4_1
- ✘ File Name: AID4_1
- ✘ Message Text: Any notes to pass along and Times for Aid Staion 4 #1

WINLINK FOR THE BEAR 100

- ✘ First of all You have to have RMS Express downloaded and installed on your computer.
 - + It can be downloaded from:
<http://www.winlink.org/RMSExpress>
- ✘ Next the frequency to use is 145.030. That is a simplex frequency.
- ✘ There is a Node on Mt. Logan. This is a Node but you can DIGIPEAT through it. Digipeater
- ✘ Digipeater callsign is N7UWX-2
- ✘ It's Node Callsign is N7UWX-6
- ✘ or an Alias of LGU2. But you will most likely not use the Node or Alias callsign unless you set up a script!

WINLINK FOR THE BEAR 100

- ✘ Next is the email address to sent these too.
 - + It is: fcraces@gmail.com (may be subject to change)
- ✘ That is the email address for Franklin County RACES. You probably need to send a test
- ✘ message to that email address so it is added to your white page.

CREATE NEW MESSAGE

The screenshot shows the RMS Express 1.2.31.0 - N7UWX application window. The title bar includes the application name and standard window controls. The menu bar contains 'Files', 'Message', 'Attachments', 'Move To: Saved Items', 'Delete', 'Open Session: Packet WL2K', 'Logs', and 'Help'. A toolbar with various icons is located below the menu bar. On the left, a folder pane lists 'Inbox (0)', 'Read Items', 'Outbox (0)', 'Sent Items (0)', 'Saved Items (0)', 'Deleted Items (0)', 'Drafts (0)', 'Personal Folders', and 'Contacts'. The main area displays a table of messages with columns for Date/Time, Message ID, Size, Source, Sender, Recipient, and Subject. A red callout bubble with the text 'Create New Message' points to the 'New Message' icon in the toolbar. The bottom of the window shows the details for the selected message: 'Message ID: QDGQ1HOVP115' and 'Date: 2014/07/31 17:33'.

System	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
Inbox (0)	2014/08/04 14:08	243VR72O4WNI	422	WEBMAIL	ADMIN	W5BI .	Please post about your gateway
Read Items	2014/08/01 18:56	Z3SYCN54ODZB	3595	WEBMAIL	ADMIN	WEBMASTER .	The new Winlink website is live at ww
Outbox (0)	2014/07/31 17:33	QDGQ1HOVP115	161	AD7HL	AD7HL	N7UWX	testing peer to peer

Message ID: QDGQ1HOVP115
Date: 2014/07/31 17:33

COMPOSING THE EMAIL WITH AN ATTACHMENT

The screenshot displays the RMS Express 1.2.31.0 - N7UWX interface. The main window is titled 'Enter a new message' and shows the following fields:

- From:** N7UWX
- To:** fcraces@gmail.com;
- Subject:** Caley 1-20
- Attach:** (empty)

The 'Message Attachments' dialog box is open, showing an 'Add' button circled in red. Below it, the 'Select An Attachment' dialog box is open, showing a file explorer view of the desktop. The file 'AID4_1.csv' is selected, highlighted in blue.

Five red callouts with white text and red borders point to specific elements in the interface:

- 1. Email address**: Points to the 'To:' field.
- 2. Subject**: Points to the 'Subject:' field.
- 3. Attach**: Points to the 'Attach:' button.
- 4. Add**: Points to the 'Add' button in the 'Message Attachments' dialog.
- 5. Select File**: Points to the 'AID4_1.csv' file in the 'Select An Attachment' dialog.

Name	Date modified	Type	Size
BEAR100app 20130924 Release	9/25/2013 5:26 PM	File folder	
AidStations.txt	9/15/2011 10:18 AM	Text Document	1 KB
backup.csv	1/26/2014 3:23 PM	Microsoft Excel C...	1 KB
Bear100Win.exe	7/25/2013 1:35 PM	Application	740 KB
AID4_1.csv	9/25/2013 5:29 PM	Microsoft Excel C...	1 KB
times.csv	9/25/2013 5:29 PM	Microsoft Excel C...	1 KB
wxbase294u_net_gcc_custom.dll	12/30/2012 7:54 PM	Application extens...	4,372 KB
wxmsw294u_adv_gcc_custom.dll	12/30/2012 7:54 PM	Application extens...	664 KB
wxmsw294u_core_gcc_custom.dll	12/30/2012 8:08 PM	Application extens...	3,759 KB
wxmsw294u_core_gcc_custom.dll	12/30/2012 8:06 PM	Application extens...	9,886 KB

The file to be sent should be the times<aidstationidentifier_file sequence>.csv file. The backup.csv is a automatic file for saving the data every 5 minutes, so it is not the current file. The backup file might be OK for a majority of the aid stations.

In the BEAR100 program menu tabs File > Save, the default Save file name is times.csv. The aid station collecting the runner data should save the data using the menu tab File > Save, but add their aid station # to the file name before the first save (example File > Save file name:AID4_1.csv).

Once this named file has been saved, the same named file is used when the File > Save is again used. This method helps identifies the file name to the aid station location when it is sent in to net control. So when an aid station is ready to send the next batch of runner data, they do a File>Save to the named file (example: AID4_1.csv).

To keep track of the files to be sent, they can do a copy file AID4_1.csv and paste to the same folder location, which give them a file copy, AID4_1 – Copy (2), with a time stamp of the AID4.csv file they just saved. When they do the next copy paste, it gives them a increment of the copy (i.e Copy (3), Copy (4), etc) on each additional copy.

COMPOSE THE MESSAGE AND “POST TO OUTBOX”

The screenshot shows a 'Winlink' message composition window titled 'Enter a new message'. The window has a menu bar with 'Close', 'Select Template', 'Attachments', 'Post to Outbox', 'Save in Drafts Folder', and 'Spell Check'. The 'Post to Outbox' button is circled in red. Below the menu bar, the 'From:' field is set to 'N7UWX'. The 'To:' field contains 'fcraces@gmail.com;'. The 'Subject:' field is 'Calley 1-20'. The 'Attach:' field contains 'AID4_1.csv v;', with 'AID4_1.csv' circled in red. A red callout box points to the 'Post to Outbox' button with the text '2. Post to Outbox'. Another red callout box points to the 'AID4_1.csv' attachment with the text '1. Description and any necessary text'. A third red callout box points to the text 'File 1 Calley Runners 1-20' in the message body with the text 'File Attached'. The message body contains the text 'File 1 Calley Runners 1-20'.

Close Select Template Attachments **Post to Outbox** Save in Drafts Folder Spell Check

From: N7UWX Winlink Message Peer Message Request read receipt

To: fcraces@gmail.com;

Cc:

Subject: Calley 1-20

Attach: AID4_1.csv v;

File 1 Calley
Runners 1-20

1. Description and any necessary text

2. Post to Outbox

File Attached

SELECT "PACKET WL2K" AND OPEN SESSION

The screenshot shows the RMS Express 1.2.31.0 - N7UWX application window. The interface includes a menu bar with 'Files', 'Message', 'Attachments', 'Move To: Saved Items', 'Delete', 'Open Session:', and 'Logs Help'. A toolbar with various icons is located below the menu bar. The main area displays a table of messages with columns for Date/Time, Message ID, Size, Source, and Recipient. The 'Open Session:' dropdown menu is open, showing a list of session options: Packet WL2K, Telnet WL2K, Packet WL2K (highlighted), Pactor WL2K, Robust PR WL2K, Winmor WL2K, Packet P2P, Pactor P2P, Robust PR P2P, Winmor P2P, Pactor Radio-only, Winmor Radio-only, and Telnet Radio-only. Two red callouts are present: one pointing to the 'Packet WL2K' option in the dropdown menu with the text '1. Select Packet WL2K', and another pointing to the 'Open Session:' menu item with the text '2. Select: open Session'.

1. Select Packet WL2K

2. Select: open Session

Date/Time	Message ID	Size	Source	Recipient
2014/08/04 14:08	243VR7204WNI			W5BI
2014/08/01 18:56	Z3SYCN540DZB			WEBMAS
2014/07/31 17:33	QDGQ1HOVPII5			N7UWX

MAKE SURE YOU HAVE SELECTED THE CORRECT TNC IN THE SETUP!

Packet WL2K/P2P Setup

TNC Connection

Packet TNC Type: Kenwood TS-2000

- AEA/Timewave
- Kantronics
- Kenwood TH-D7/D72 A-Band
- Kenwood TH-D7/D72 B-Band
- Kenwood TM-D700 A-Band
- Kenwood TM-D700 B-Band
- Kenwood TM-D710 A-Band
- Kenwood TM-D710 B-Band
- Kenwood TS-2000
- KISS
- OpenTracker USB
- PTC-II/PTC-IIpro Port 1
- PTC-II/PTC-IIpro Port 2
- PTC-IIe/PTC-IIlex/PTC-IIusb/PTC-7x00
- SCS Tracker
- TAPR TNC2
- TinyTracker 4
- TNC-X

AutoConnect Time: Disabled

TNC Parameters

TX Delay: PTC-II/PTC-IIpro Port 1

Maximum Retries: PTC-IIe/PTC-IIlex/PTC-IIusb/PTC-7x00

Baud: SCS Tracker

Slot time: TAPR TNC2

Persistence: TinyTracker 4

Transmit Level: TNC-X

Disable Xmt Level Adjust Transmit Level: 300

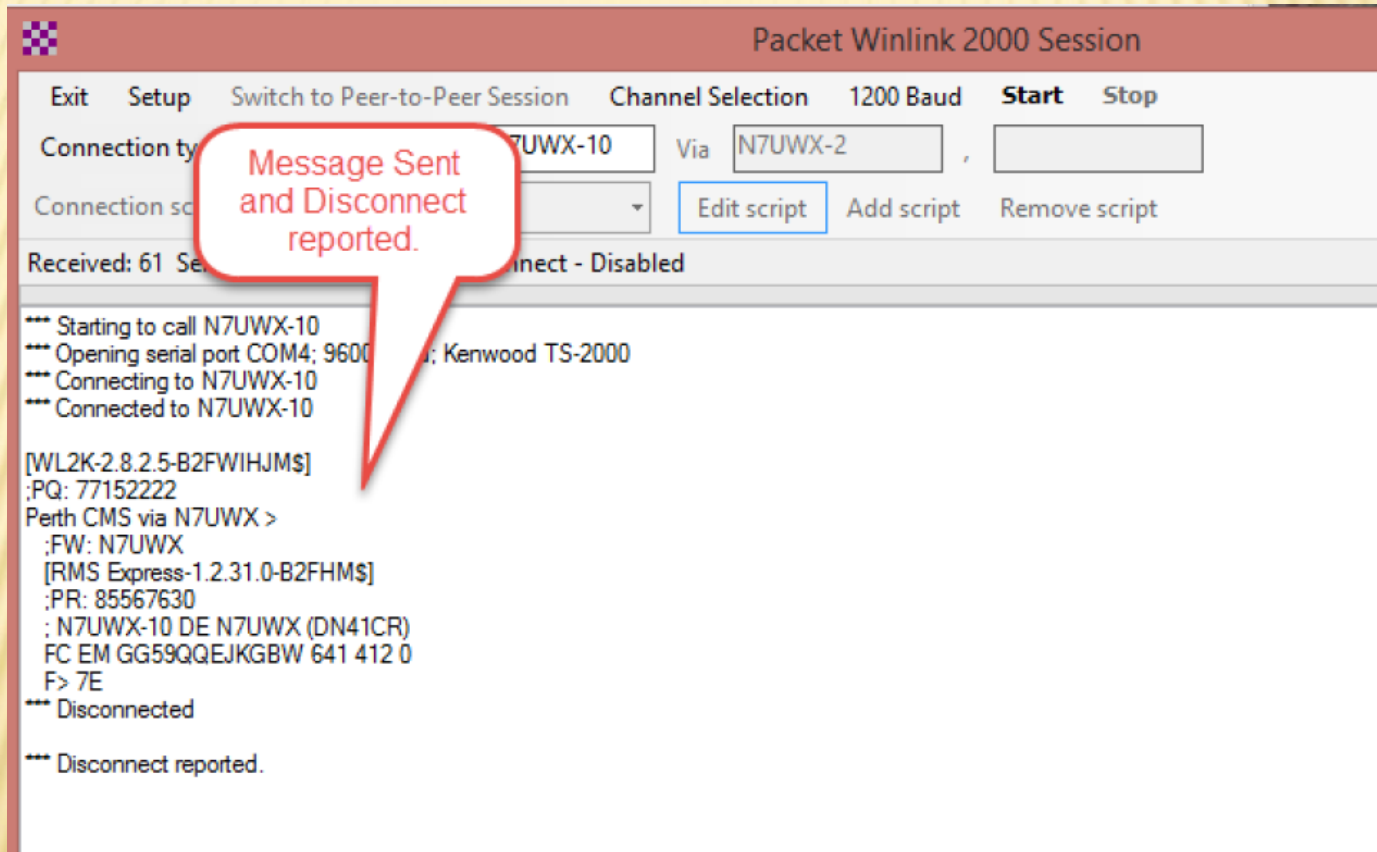
Update Cancel

SELECT "DIGIPEATER", N7UWX10 VIA N7UWX2 AND SELECT START

The screenshot shows the Packet Winlink 2000 Session interface. The title bar reads "Packet Winlink 2000 Session". The interface includes a menu bar with "Exit", "Help", "Switch to Peer-to-Peer Session", "Channel Selection", and "1200 Baud". Below the menu bar, there are several input fields and buttons. Callout 1 points to the "Exit" menu item. Callout 2 points to the "Digipeater" dropdown menu in the "Connection type:" field. Callout 3 points to the "N7UWX-10" text box in the "Via" field. Callout 4 points to the "Start" button, which is circled in orange. Below these fields, there is a "Connection script:" field with "Home2CCSO" selected, and buttons for "Edit script", "Add script", and "Remove script". A status bar shows "Time to next Autoconnect - Disabled". The bottom section of the window displays a log of session events:

```
*** Starting WL2K packet session...
*** Initializing Kenwood TS-2000; port COM4; 9600 baud
*** Initialization complete
*** Ready
```

MESSAGE SENT CONFIRMATION



The screenshot shows the Packet Winlink 2000 Session interface. A red callout bubble highlights the text "Message Sent and Disconnect reported." in the terminal output. The interface includes a menu bar with "Exit", "Setup", "Switch to Peer-to-Peer Session", "Channel Selection", "1200 Baud", "Start", and "Stop". Below the menu bar, there are input fields for "Connection type" (N7UWX-10) and "Via" (N7UWX-2). There are also buttons for "Edit script", "Add script", and "Remove script". The terminal output shows the following text:

```
Received: 61 Se... nect - Disabled  
*** Starting to call N7UWX-10  
*** Opening serial port COM4; 9600...; Kenwood TS-2000  
*** Connecting to N7UWX-10  
*** Connected to N7UWX-10  
[WL2K-2.8.2.5-B2FWIHJM$]  
;PQ: 77152222  
Perth CMS via N7UWX >  
;FW: N7UWX  
[RMS Express-1.2.31.0-B2FHM$]  
;PR: 85567630  
; N7UWX-10 DE N7UWX (DN41CR)  
FC EM GG59QQEJKGBW 641 412 0  
F> 7E  
*** Disconnected  
*** Disconnect reported.
```


SCRIPTS

If you want to do it the hard way, these instructions will help you create and run a script.

But The

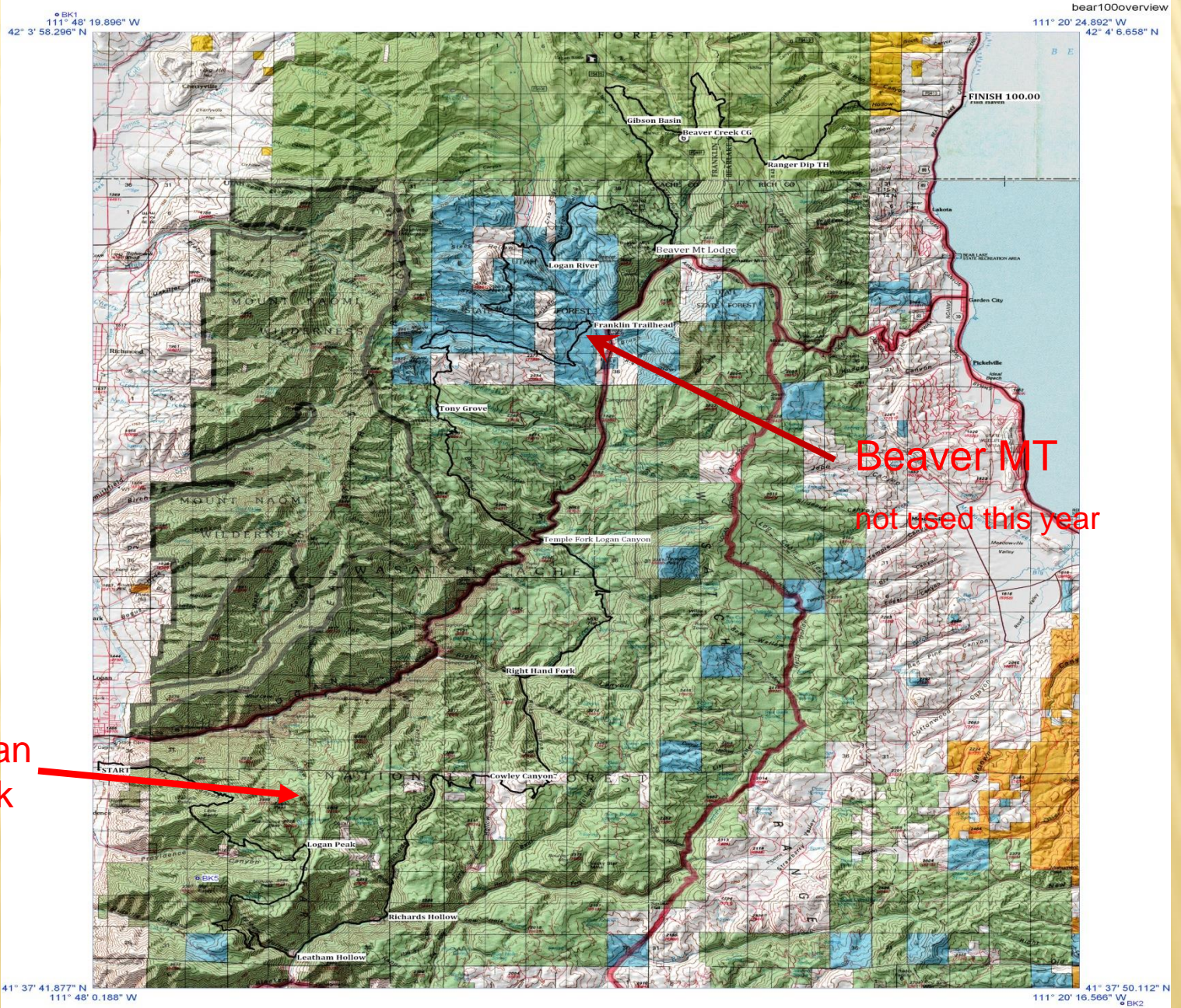
digipeater option is much easier!

<https://docs.google.com/file/d/0B5zbPveIrfBwQkpLMVpJZU5ZRXM/edit?usp=sharing>

USING THE KENWOOD TH-D710 FOR PACKET WINLINK

× Demo

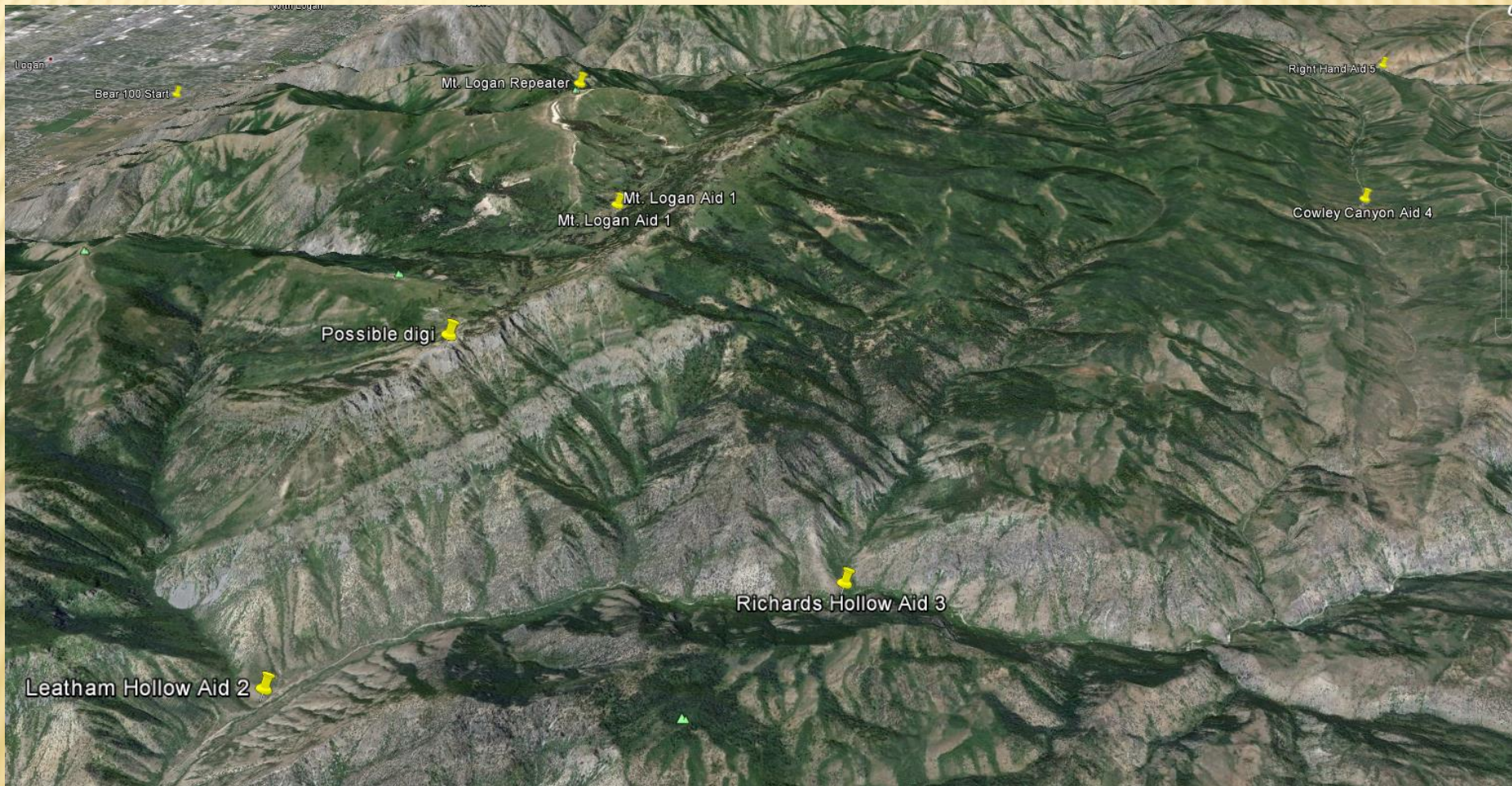
Packet Node Locations



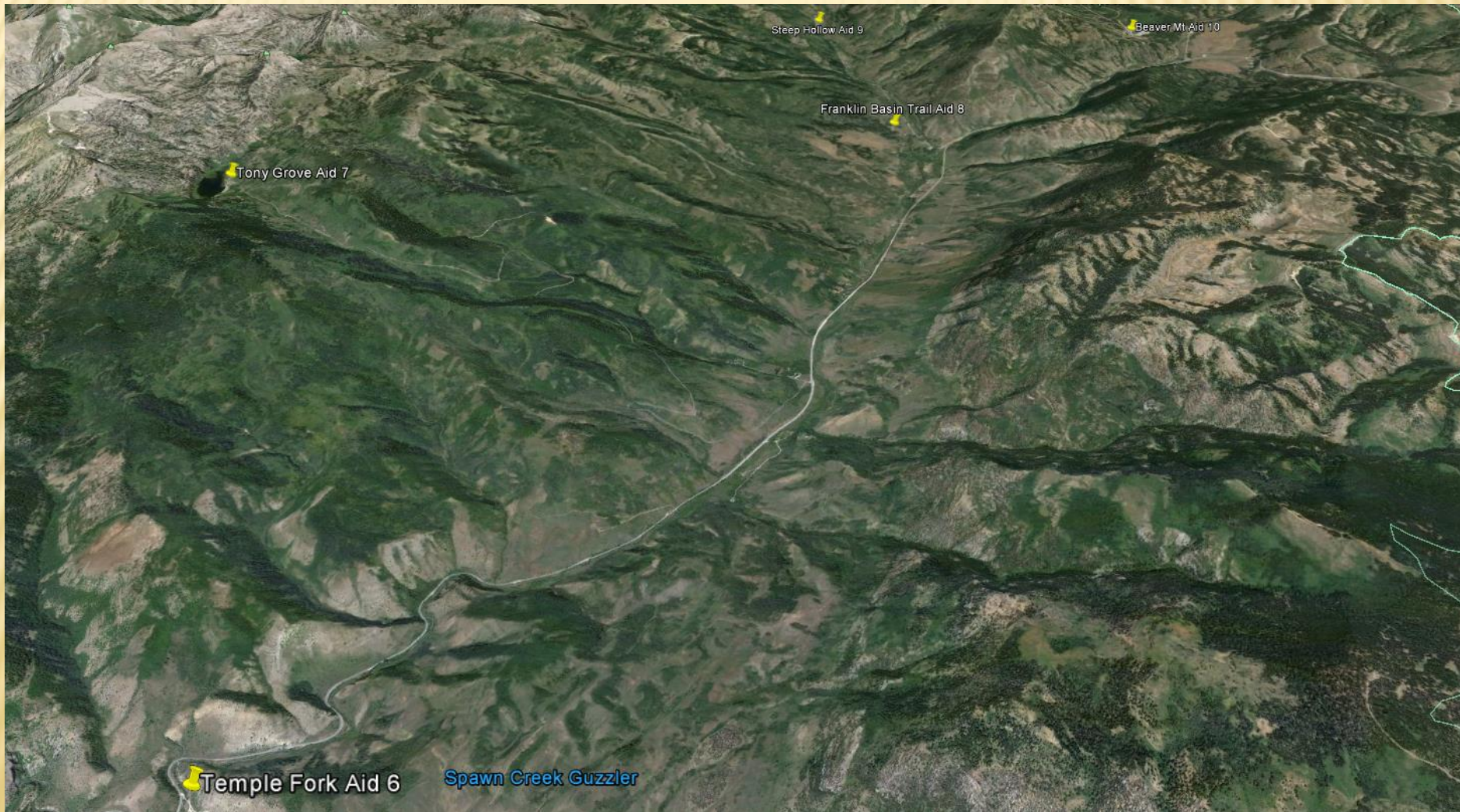
VIEW OF THE COURSE LOOKING FROM THE NORTH EAST



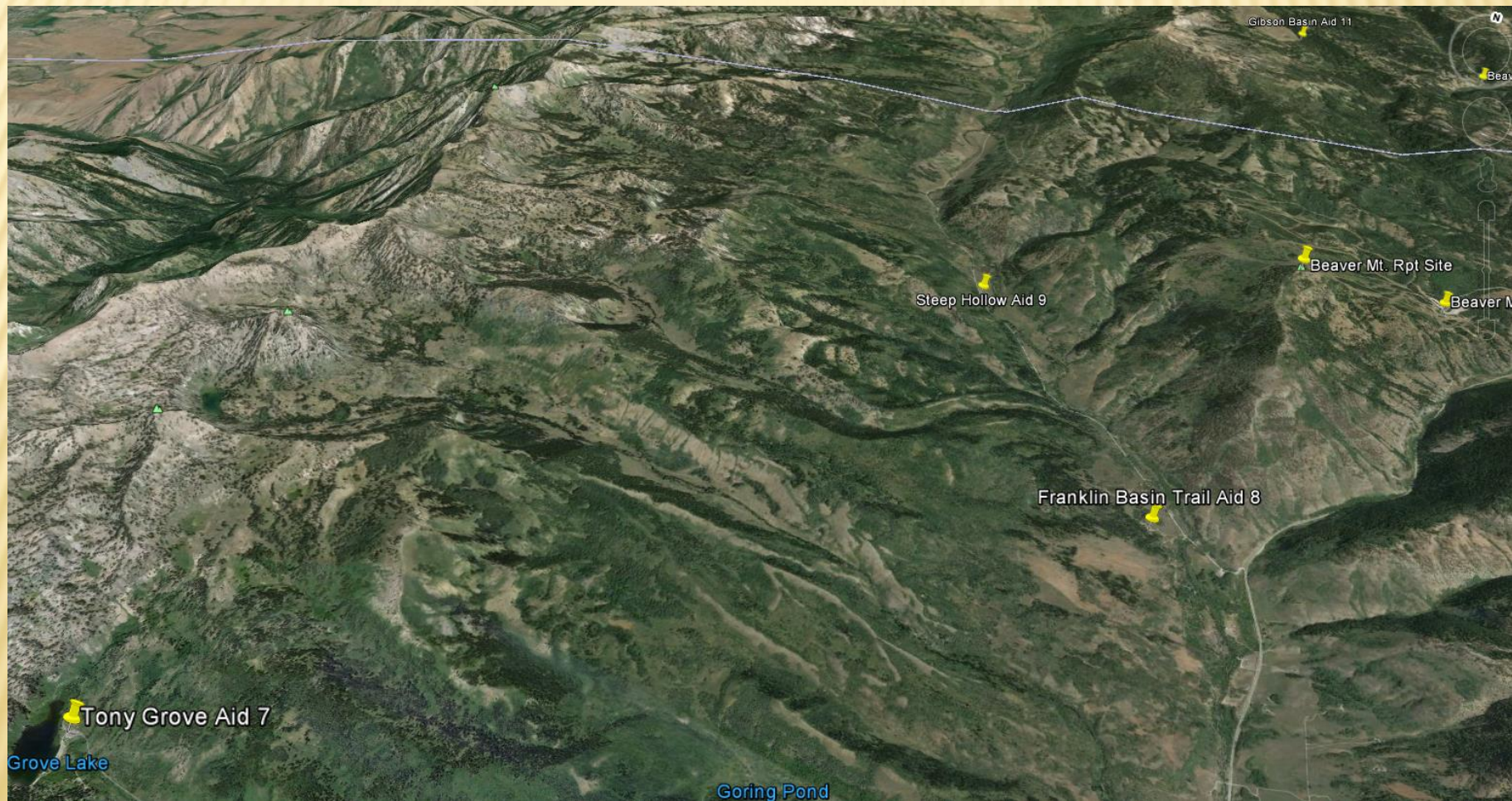
FIRST 6 AID STATIONS



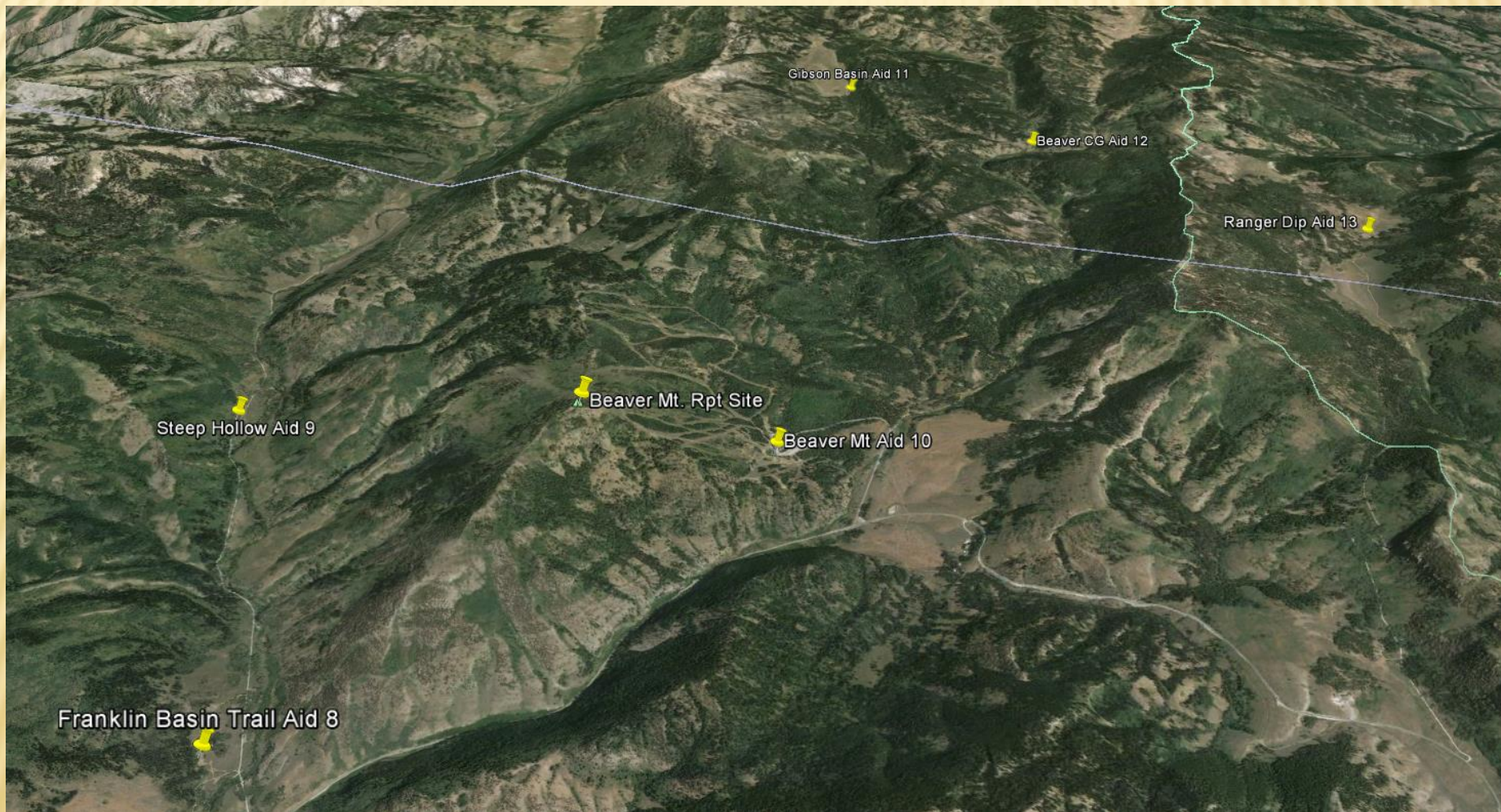
MIDDLE OF THE COURSE



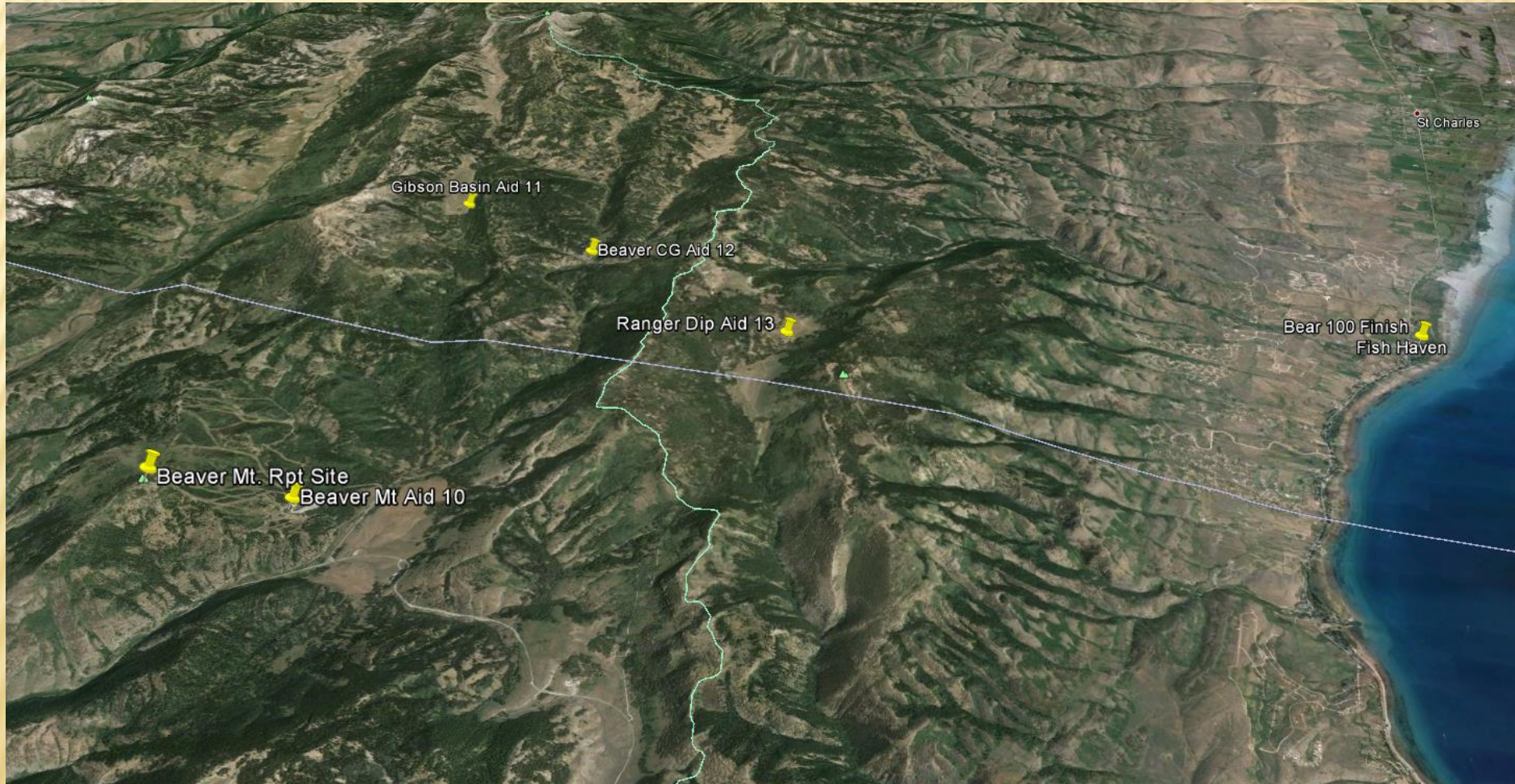
NORTH END OF THE COURSE



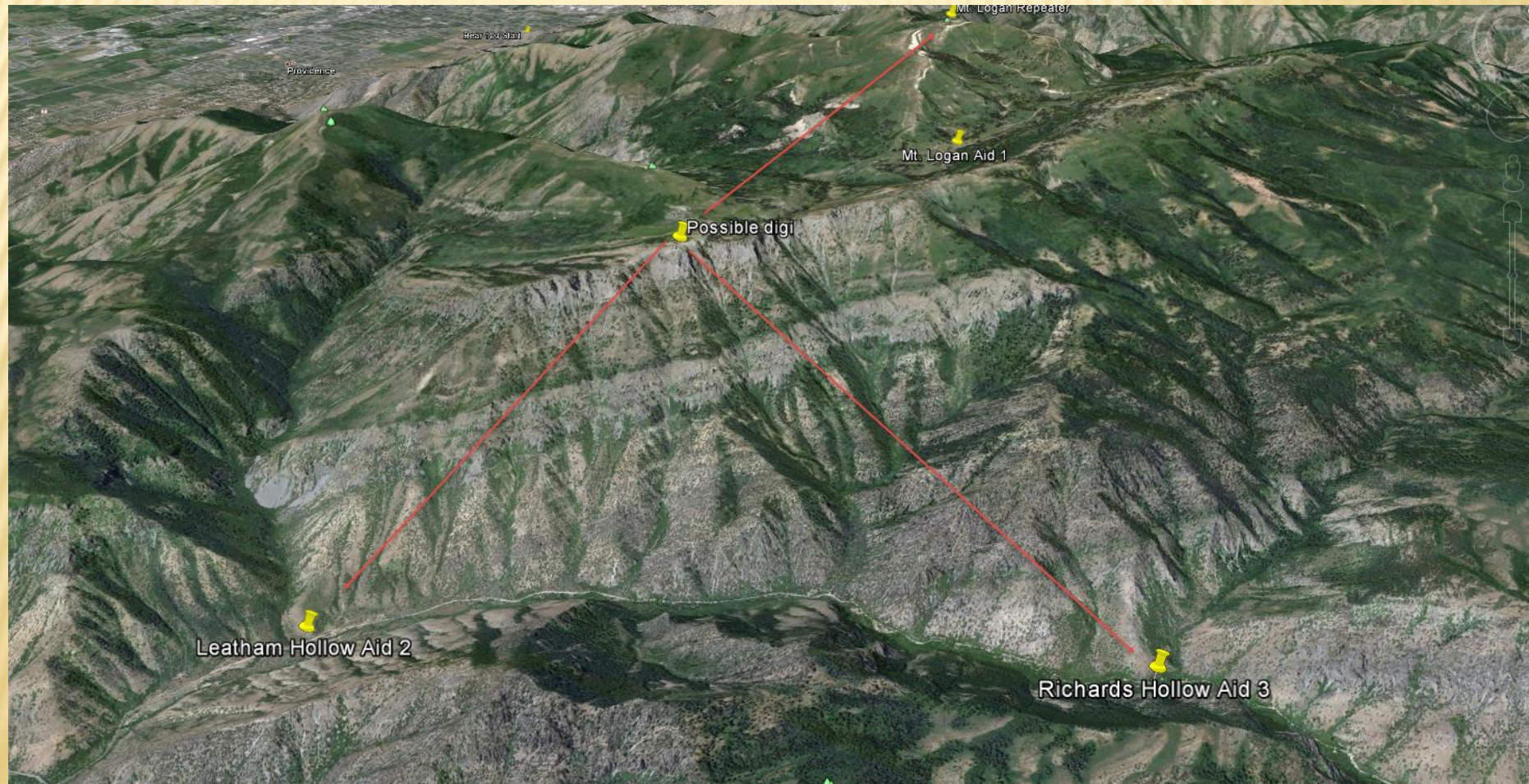
MORE NORTH END OF COURSE



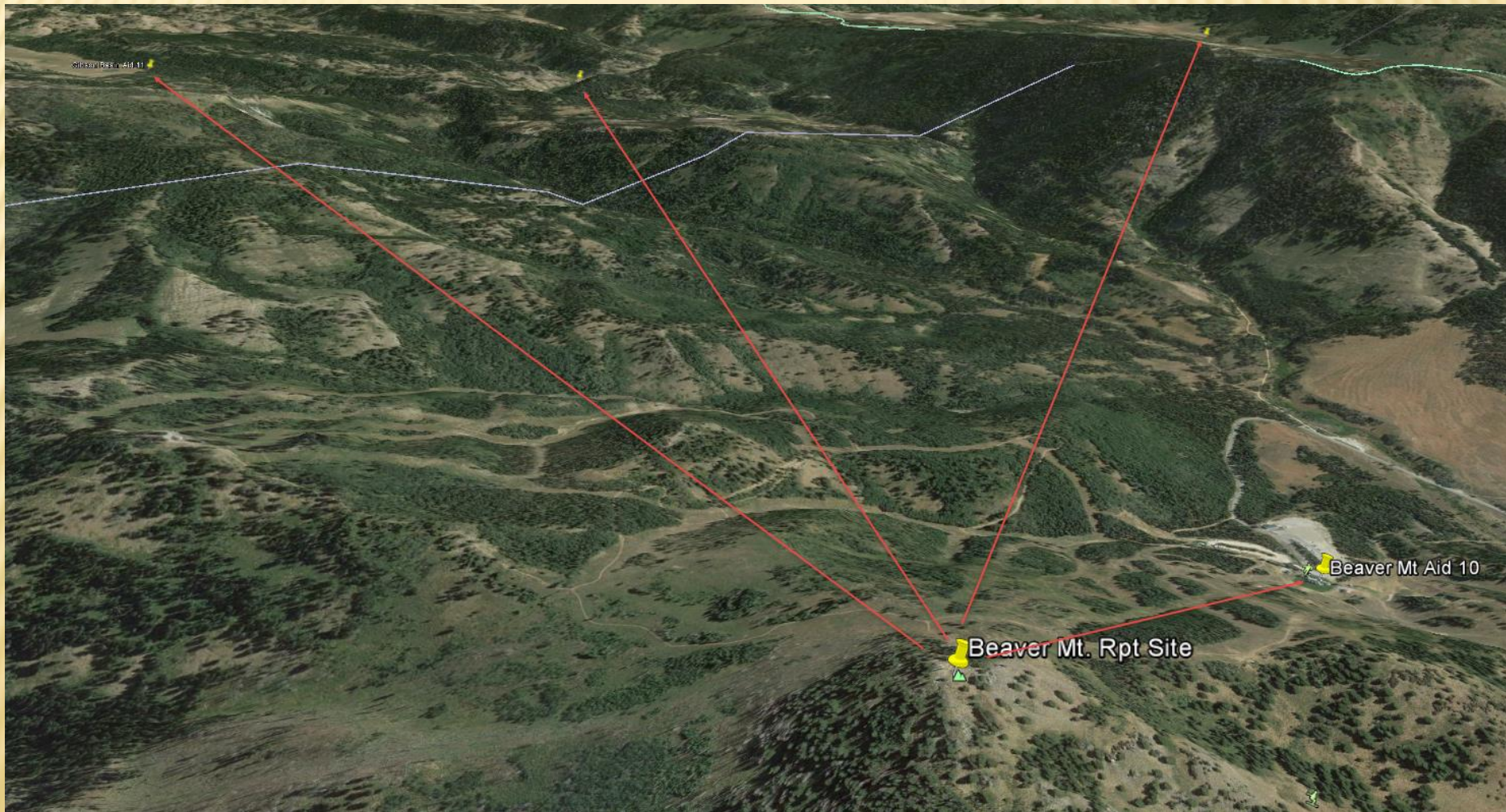
LAST FEW AID STATIONS AND FINISH



POSSIBLE PORTABLE DIGI SITE FOR LEATHAM HOLLOW (AS2) AND RICHARDS HOLLOW (AS3)



BEAVER MT. DIGI NEEDS TO BE INCORPORATED FOR THE NORTH END OF THE COURSE



FUTURE SUBJECTS

- × P2P Connections
- × Digipeaters
- × Path/Frequency Prediction software
- × Winmor
- × HF

WINLINK TRAINING VIDEOS

This link will take you to a series of very good Winlink Training videos covering RMS Express.

Start with the “Cables and Connections” then “Settings and Software”. Continue on with “Part 1 thru 5”

https://www.youtube.com/results?search_query=k4ref+winlink

USEFUL LINKS

Winlink website

- <http://www.winlink.org/>

Excellent tutorial on getting started with Winlink

- http://www.winlink.org/webfm_send/184

Youtube videos

http://www.winlink.org/K4REF_Videos

RMS Express download site (ftp)

- <ftp://autoupdate.winlink.org/User%20Programs/>

Address to Grid Square converter

- http://www.levinecentral.com/ham/grid_square.php

QST May 2012 article on RMS Express for HF (p.40)

- http://www.nxtbook.com/nxtbooks/arrl/qst_201205/index.php#/42

Cable selection guide

- http://www.hamradioexpress.com/pdfzips/RASCAL_TNCable-to-transceiver-LINKs.pdf

QST July 2012 article on managing USB virtual COM ports (p.60)

- http://www.nxtbook.com/nxtbooks/arrl/qst_201207/index.php#/68

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- ✘ Comments?
 - ✘ Questions?