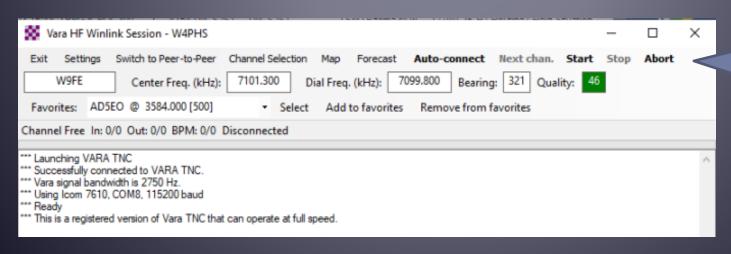
Winlink Express Connection Options Phil Sherrod – W4PHS / NCS398



Five Ways to Select an RMS and Frequency

- Using HF channel list
- Using saved favorite RMS and frequencies
- Using RMS Map
- Using Propagation Forecast
- Using Auto-connect



Connection options are in top section of session screen

Using HF Channel List

Update Via Internet

HF Channel Selector

Click Channel Selection



Forecast

All RMS

Update Via Radio

X

Click a column heading to sort on that column

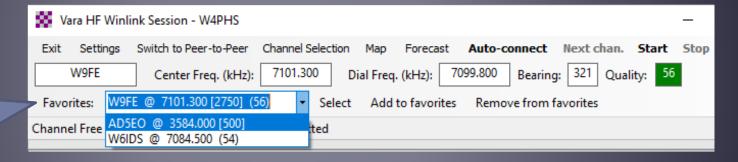
Double click to select RMS and frequency

										_
Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (mi)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate	1
KN4CCQ	7101.500	V2300	EM65QT	00-23	PUBLIC	17	148	96	96	
K9KDJ	7102.400	V2750	EM67GX	00-23	PUBLIC	140	345	86	58	
K9BBS	7102.500	V500	EM68SR	00-23	PUBLIC	188	005	87	58	
K9KDJ	7064.000	V500	EM67GX	00-23	PUBLIC	140	345	86	58	
N2GWK	7106.500	V500	EM77GU	00-23	PUBLIC	146	030	87	58	
KF4LXS	7102.500	V2300	EM67GW	00-23	PUBLIC	137	345	86	57	
W9FE	7101.300	V2300	EM59AA	00-23	PUBLIC	270	321	88	56	
W9FE	7103.700	V2300	EM59AA	00-23	PUBLIC	270	321	88	56	
KD7UHR	7108.500	V500	EM58BQ	00-23	PUBLIC	250	318	88	56	
K4MSU	7102.500	V2300	EM56UO	00-23	PUBLIC	93	296	85	56	
KD7UHR	7064.000	V500	EM58BQ	00-23	PUBLIC	250	318	88	56	
KD7UHR	7101.500	V2750	EM58BQ	00-23	PUBLIC	250	318	88	56	
KD7UHR	7103.500	V2750	EM58BQ	00-23	PUBLIC	250	318	88	56	

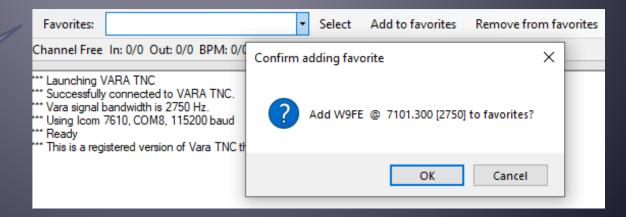
Saving and Using Favorite Channels

• You can save your favorite channels and select them easily. You can have some favorites for day and others for night.

Select from drop-down list of favorite channels

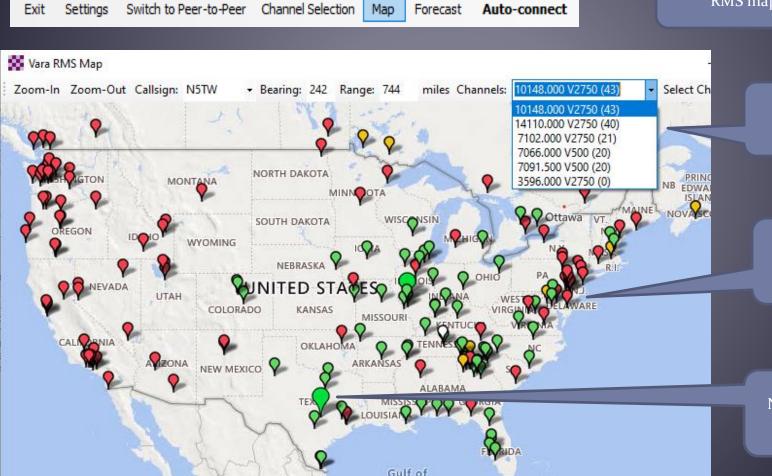


Click Add/Remove to manage list of favorite channels



Using RMS Map to Select Channels

Vara HF Winlink Session - W4PHS



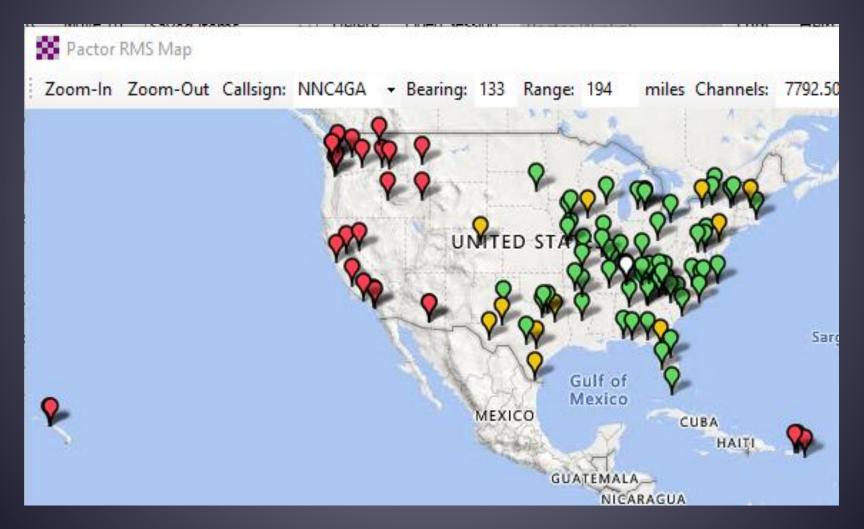
Click "Map" to open RMS map

N5TW Vara channels

Marker colors indicate propagation

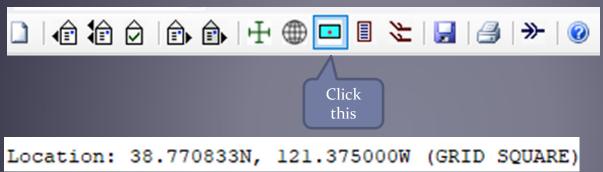
N5TW selected (large marker)

SHARES Pactor RMS Map



Mapping Location of Message Sender

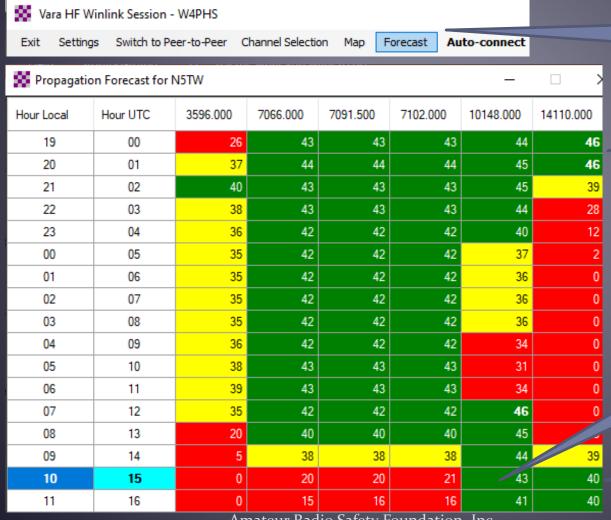
 Select a message, and click toolbar icon to show map marking location of message sender.





Amateur Radio Safety Foundation, Inc.

Using Propagation Forecast Screen



Click "Forecast" to open propagation forecast screen

High SFI, so many good frequencies

Grid showing each hour of day, each channel, and estimated propagation.

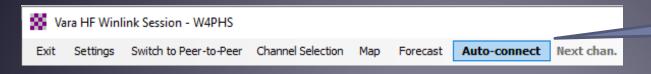
Click a cell in a column to select that frequency

Current hour highlighted

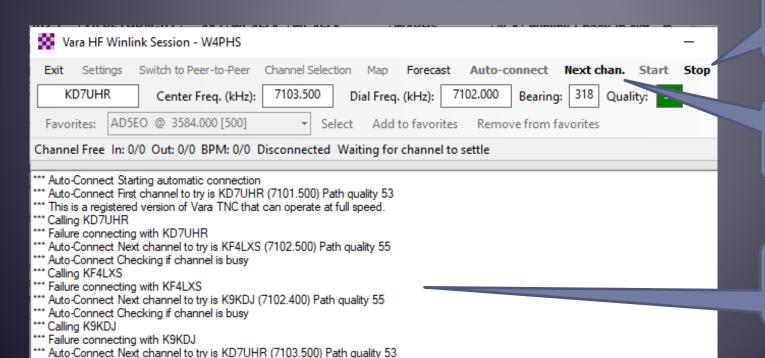
Amateur Radio Safety Foundation, Inc.

Using Auto-Connect

*** Auto-Connect Checking if channel is busy



Click "Auto-connect"



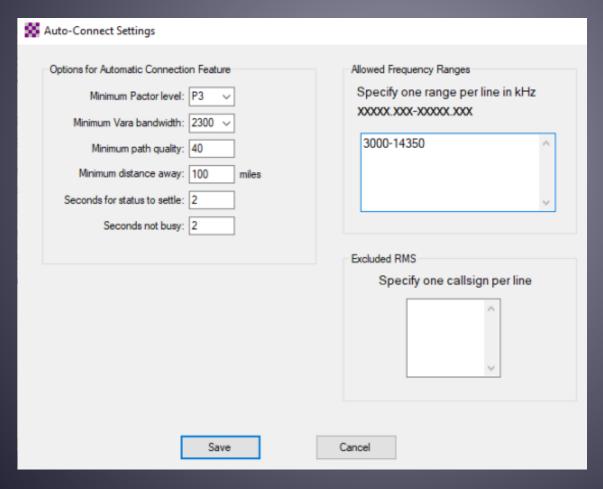
Click Stop or Abort to stop Auto-connect

Click "Next chan" to force skip to next channel

Dummy load was used to force many tries

Auto-Connect Parameters

On session screen, click Settings/Auto-connect setup

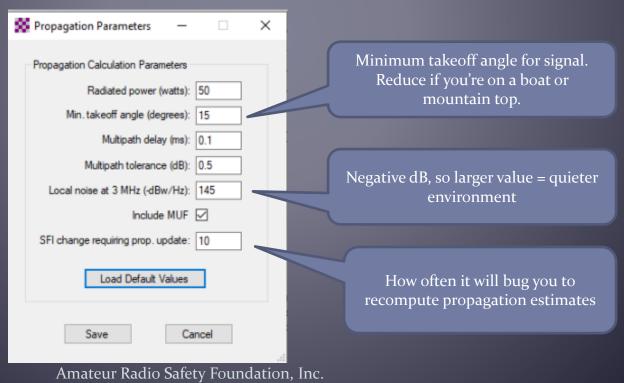


Auto-Connect Behind the Scenes

- Channel connection order is based on more than propagation quality estimate.
- RMS saved in favorites get priority boost
- Success/Failure connection history
- Relative speed of transfer compared to other RMS you've connected to.
- Only the best two channels for an RMS are tried
- If a busy frequency is detected, no other channels within +/- 500 Hz will be tried.
- Constraints such as service code, minimum distance, blocked RMS, Pactor level, Vara bandwidth, radio-only capable.

Propagation Calculation Parameters

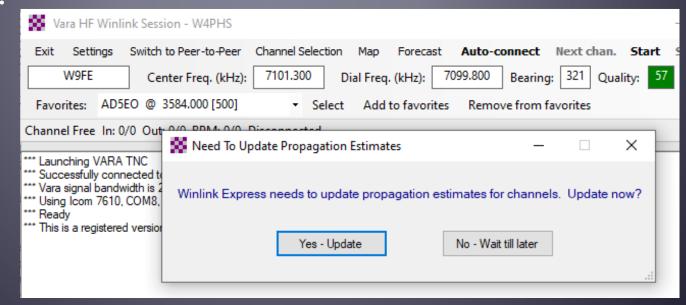
- You can adjust parameters used to compute propagation estimates.
- On main screen click
 Settings/Propagation Calculation Parameters



Recomputing Propagation Estimates

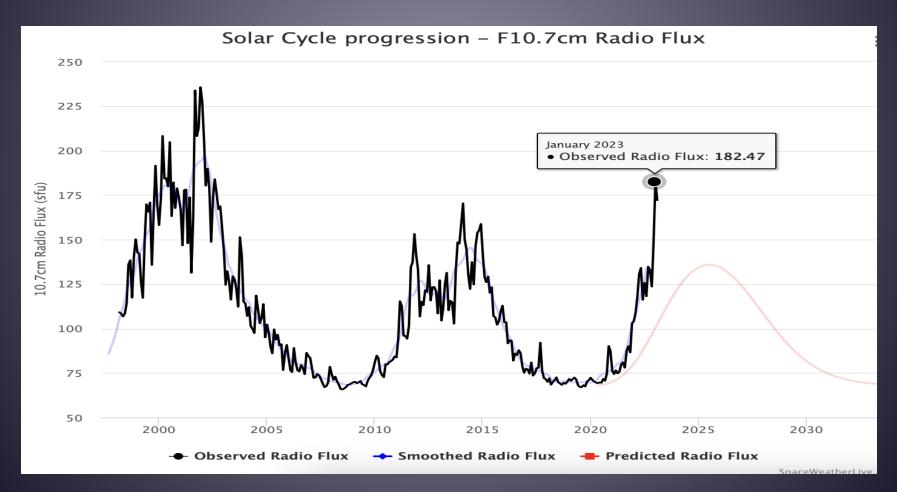
• If SFI changes more than a specified amount or propagation parameters are changed, Express will prompt you to recompute propagation estimates.

SFI can be obtained via Internet or from Trimode greeting.



Eleven Year Sunspot Cycle

• Excellent SFI = More available channels





- Winlink team:
 - Phil Sherrod, W4PHS (Developer and BoD)
 - Steve Waterman, K4CJX (Administrator and BoD)
 - Winlink Development Team
- Winlink web site: www.winlink.org
- White papers about Winlink: www.qrz.com/db/W4PHS
- Support group: https://groups.google.com/forum/#!forum/winlink-programs-group