

Winlink for Canadian EmComm



Radio Amateurs of Canada - Alberta Section

Winlink talking points

- Background
- Why Winlink
- A very Brief History
- The starting point - Where is Winlink now
- The Vision - Where are we going
- The Project - How are we getting there

The changing role of EmComm

- Emergency communications outside of HAM radio has improved significantly reducing the need for “Last resort” communications
- ARES and HAM Radio will be needed when Emergency communications becomes overwhelmed or fails
- Amateur radio is still the most likely method of communications during the first 24 to 48 hours of a disaster.

Why Winlink

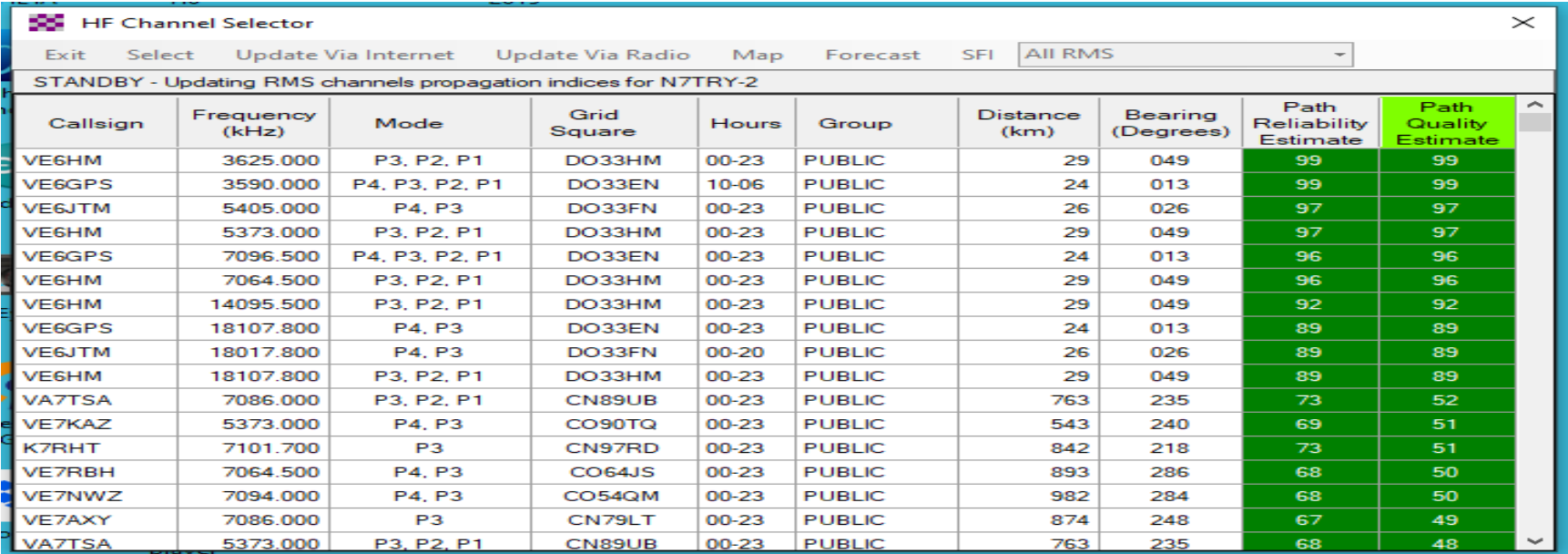
- No other protocol has an automated connection to Email
 - Destination can be Email, Winlink, SMS
 - Message can be sent by radio or Internet
 - Various radio protocols Pactor, Vara, ARDOP, Packet to RMS
 - Internet protocol is telnet to CMS
- Well established across a large part of the world

Why Winlink

- There is a secondary delivery method with human intervention
 - Radio Relay International (RRI) and the Winlink Development Team (WDT) have an MOU for the delivery of Radiograms.
 - RRI has undertaken to deliver all Radiograms inserted into the Winlink system using the RRI ICS213 radiogram form.

Why Winlink

- No other System shows you the best stations to talk to based on calculated propagation.



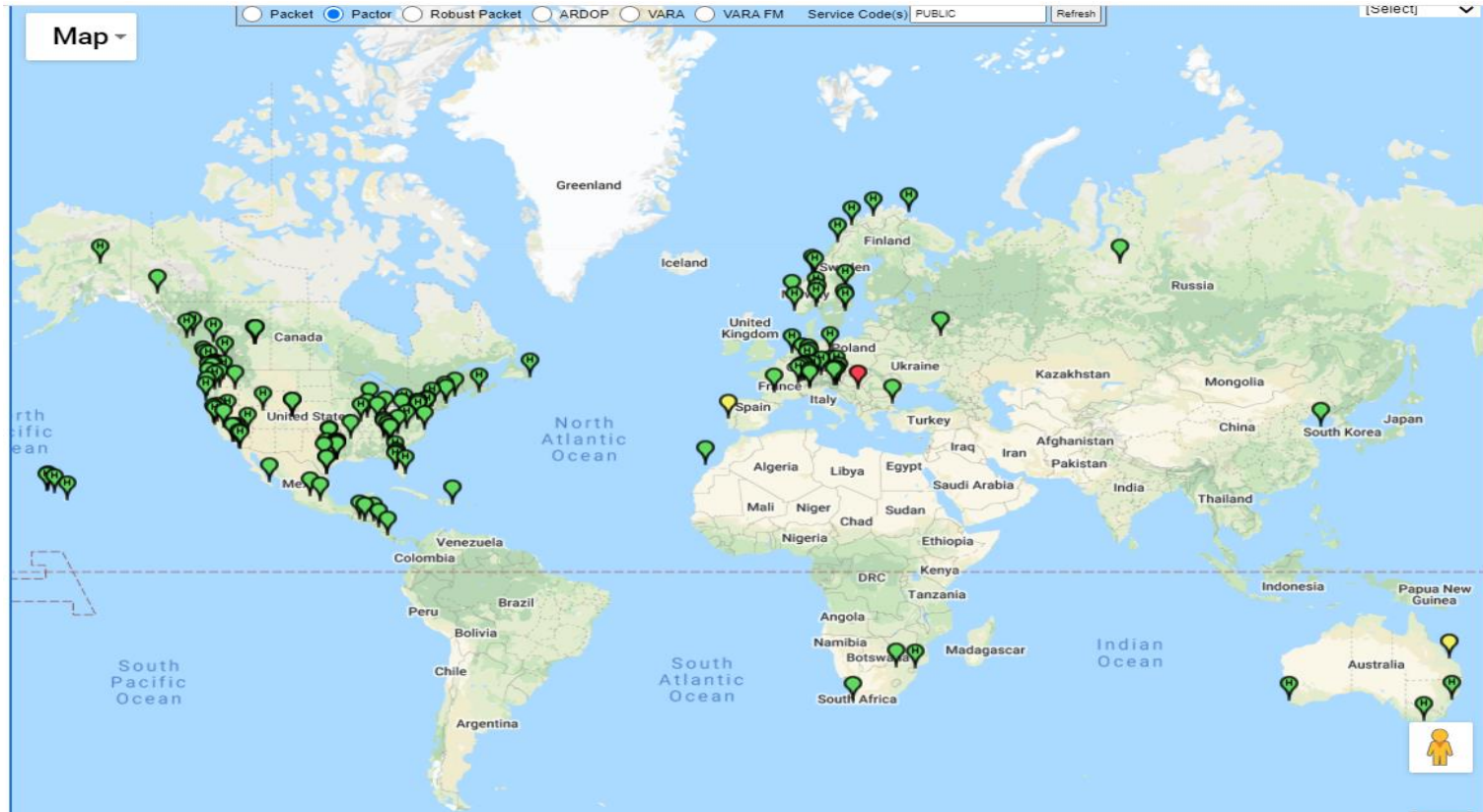
HF Channel Selector

Exit Select Update Via Internet Update Via Radio Map Forecast SFI All RMS

STANDBY - Updating RMS channels propagation indices for N7TRY-2

Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (km)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate
VE6HM	3625.000	P3, P2, P1	DO33HM	00-23	PUBLIC	29	049	99	99
VE6GPS	3590.000	P4, P3, P2, P1	DO33EN	10-06	PUBLIC	24	013	99	99
VE6JTM	5405.000	P4, P3	DO33FN	00-23	PUBLIC	26	026	97	97
VE6HM	5373.000	P3, P2, P1	DO33HM	00-23	PUBLIC	29	049	97	97
VE6GPS	7096.500	P4, P3, P2, P1	DO33EN	00-23	PUBLIC	24	013	96	96
VE6HM	7064.500	P3, P2, P1	DO33HM	00-23	PUBLIC	29	049	96	96
VE6HM	14095.500	P3, P2, P1	DO33HM	00-23	PUBLIC	29	049	92	92
VE6GPS	18107.800	P4, P3	DO33EN	00-23	PUBLIC	24	013	89	89
VE6JTM	18017.800	P4, P3	DO33FN	00-20	PUBLIC	26	026	89	89
VE6HM	18107.800	P3, P2, P1	DO33HM	00-23	PUBLIC	29	049	89	89
VA7TSA	7086.000	P3, P2, P1	CN89UB	00-23	PUBLIC	763	235	73	52
VE7KAZ	5373.000	P4, P3	CO90TQ	00-23	PUBLIC	543	240	69	51
K7RHT	7101.700	P3	CN97RD	00-23	PUBLIC	842	218	73	51
VE7RBH	7064.500	P4, P3	CO64JS	00-23	PUBLIC	893	286	68	50
VE7NWZ	7094.000	P4, P3	CO54QM	00-23	PUBLIC	982	284	68	50
VE7AXY	7086.000	P3	CN79LT	00-23	PUBLIC	874	248	67	49
VA7TSA	5373.000	P3, P2, P1	CN89UB	00-23	PUBLIC	763	235	68	48

PACTOR RMS around the world



Why Winlink

- The #1 reason:
 - Winlink has Radio Mail Systems (RMS) and Computer mail systems (CMS) on 24/7 all over the world.

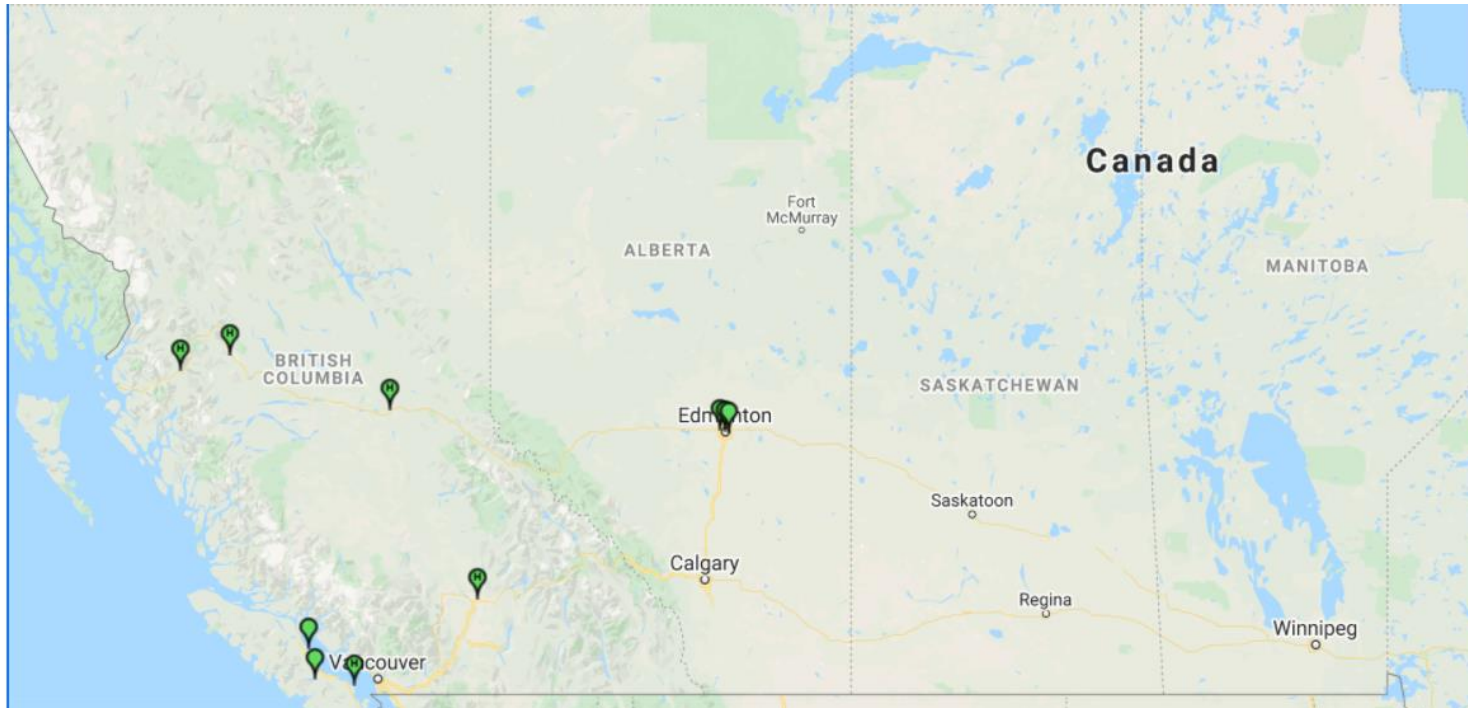
A very brief History

- Started in 1980 as APLink (Amtor-Packet Link)
- Connected with e-Mail in the 1990s with text messages only (Winlink Classic)
- 1998 winlink 2000 was envisioned
- Winlink handled over 55,000 messages last month

Where is Winlink now

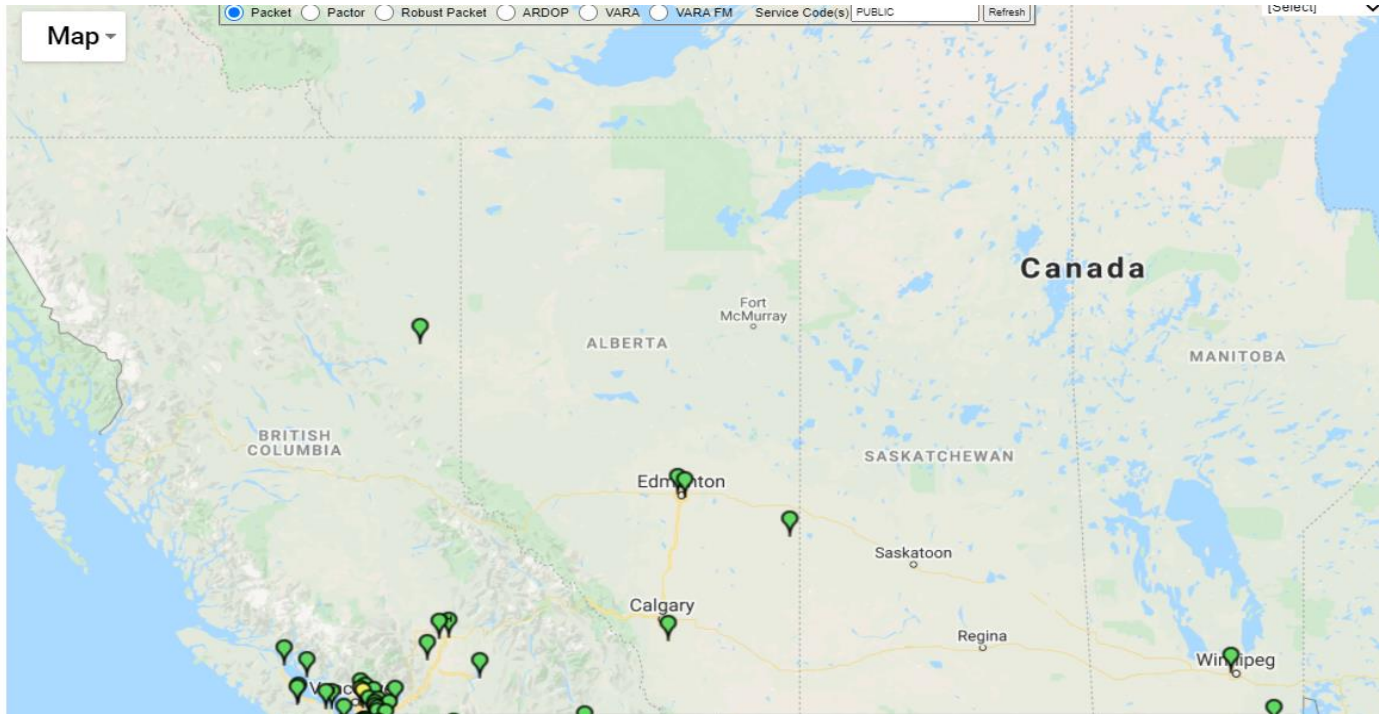
- Western Canada HF

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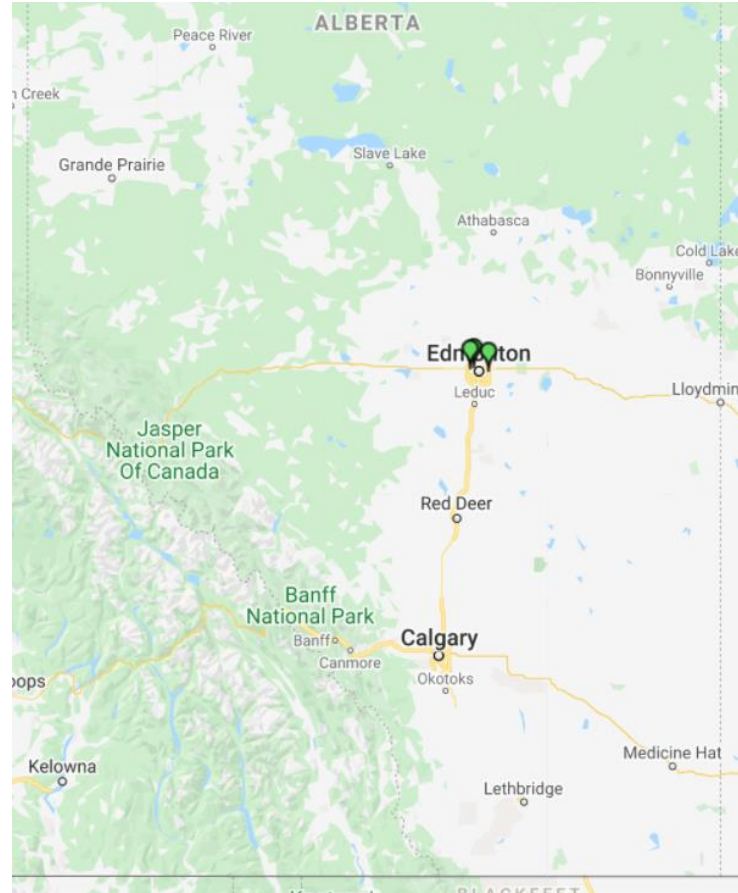
Where is Winlink now

- Western Canada VHF/UHF Packet



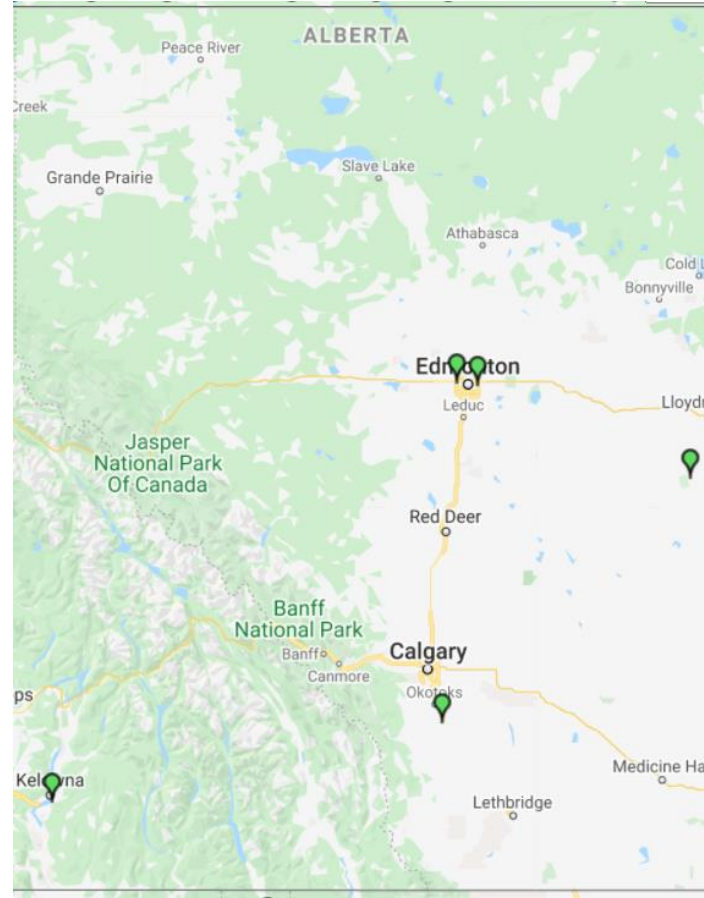
Where is Winlink now

- HF In Alberta



Where is Winlink now

- Packet In Alberta
 - VHF and UHF



The Vision

- Nationally
 - A system of Winlink RMS Stations that can connect across Canada.
- Provincially
 - Relatively easy access to a VHF or UHF RMS in Alberta
 - Ideally all major centers having 1 VHF or UHF RMS

The project

- Part One: To identify strategic locations for Winlink VHF/HF RMS stations in Alberta and to promote/encourage local clubs/Operators to set them up.
- Part Two: to Promote Winlink Use in the province for non Emergency and Emergency Communications use, through training.

What it is not

- ARES is not going to build the provincial infrastructure as ARES has no funds.
- We will do our best to encourage the Local Clubs or individual Operators in the identified locations to be the sponsors/maintainers.

Summary

- Winlink looks like it will be a major player in EmComm in Canada
- We need to promote it in Alberta so that we have the infrastructure to make it useful.

Questions