The Hellgate Static
Jan 2025

Hellgate Amateur Radio Club
P.O. Box 3811, Missoula, MT. 59806-3811
Web: www.w7px.org

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Coming Events 2025

Jan	1	New Years Day
Jan	13	HARC Testing and Meeting
Jan	20	MLK Jr Day
Jan	20	Inauguration Day (DC,MD,VA)
Feb	14	Valentines Day

Officers:

President: NZ7S
Vice-President: W7RPG
Treasurer: KJ7YHG
Secretary: K7MSO

Appointed Positions:

Emergency Coordinator: contact_us@w7px.org
QSLs, Awards: contact_us@w7px.org
Webmaster: contact_us@w7px.org
Asst Webmaster:
License Exams Contact VE:
harc.ve.testing@gmail.com
Static Editor: editor@w7px.org

AD-HOC HC Committee:
W7XT, K0SN, K7QA, K7MTD, N7NHS
Buy-Sell Operations hfc@w7px.org

HARC Dec Meeting

Program: APRS tracking the ISS
by K7MTD

RADIO TESTING EXAMS AND MEETING

The testing and meeting are on the 2nd Monday of each Month.
We are having in-person, electronic testing and monthly meetings.
The Radio license Exams are from 5:30-6:30PM
Meetings which start at 7:00PM (Program & Business).
Both will be held at **The Church of Jesus Christ of Latter Day Saints**, 3026 South Avenue West, across the street from Big Sky High School.
Use the North entrance as all others will be locked.

Published: 31 Dec 2024 @ 8:00 PM by N7PAS

9 Dec 2024 Exam Testing Results

Congratulations to:

1. **Fiona Caldwell** of Thompson Falls has passed her **Technician** exam. Her call sign is **KK7YBM**.
2. **Chandon Fugate** of Missoula has passed his **Tech & Gen** exam. His call sign is **KK7YBW**.
3. **Owen Javins** of Missoula has passed his **Techhnician** exam. His new call sign is **KK7YDP**.
4. **Brad Warren KK7VXQ** of Hamilton passed his **Extra** exam.

9 Dec 2024 HARC Dinner Meeting only NO business Dinner started @ 7:04 PM

1. Attendance: N7PAS & N7JGS, K7MTD, W7GJ & Karen,K7INJ, KC7BOG, KK7QJH, W7RPG, KF7GZR & N7DLP, KK7NOM, N7NHS & Peggy, K0SN & Linda, W7TED, NZ7S & Paige, K7QA, K7MSO.

Visitors: Karen, Peggy, Linda, Paige.

NOTE: 17 Members / 4 Visitors present. Thank you to all that attended.

Notice:

After 2 ½ years of service, Paul N7PAS, is resigning his position as HARC Static Editor.

Paul's dedicated commitment to this position has been greatly appreciated. We will miss his consistency and attention to detail. Thanks again to Paul for his service.

Paul will continue to serve as the Contact Volunteer Examiner and as liaison between the Church and the Club.

Eric NZ7S

	HARC INVENTORY DEC 2024	For Sale	IF YOU DON'T LIKE PRICE, MAKE AN OFFER!				
	SEND EMAIL TO HFC@W7PX.ORG FOR INFO OR TO MAKE PURCHASE						
	MANY NEW ITEMS ADDED 12-26-2024. SEE LINES A79-A116.						
	Displayed values are for item in good working order after being tested.						
Line	ITEM	MAKE	MODEL	CONDITION	VALUE	STORED	REMARKS
A1	Speech Intel. Enhancer	MFJ	616	untested	75	NZ7S	Ebay used price $150
A2	VHF Hand Held	BendixKing	LPH5143	untested	37	NZ7S	Ebay used $75
A3	VHF Hand Held	Icom	F70DT	untested	45	NZ7S	Ebay used $85
A4	VHF Hand Held	Alinco	DJ-G5	untested	65	NZ7S	Ebay used $130
A5	Mounting Bracket	Icom	MBF-1	untested	25	NZ7S	w/suction Cup
A6	QRM Eliminator	X-phase		untested	30	NZ7S	
A7	Aluminum Proj. box			untested	5	NZ7S	
A8	Hybrid Phone Patch	Heathkit		untested	5	NZ7S	
A9	2M/440 Mobile Xcvr	Kenwood	TM721A	untested	50	NZ7S	inc. diplexer
A10	Pactor controller	SCS	PTC-II Pro	untested	150	NZ7S	Ebay used $400
A11	Multi-mode TNC	AEA	PK232 MBX	untested	25	NZ7S	Ebay used $50-200
A12	Speaker Mic	Motorola		untested	5	NZ7S	
A13	Remote Software	Icom	RS-BA1	untested	?	K7MTD	
A14	HF Mobile Xcvr	Kenwood	TK-90	untested	500	NZ7S	w/ALE module. $1300
A15	HF Xcvr qty 2	Icom	F-8101	New	2000	NZ7S	w/ALE new $2850
A16	HF Xcvr	Icom	F-8101	untested	1400	NZ7S	used
A17	AutoTuner, 150W.(qty2)	SGC	SG230	untested	200	NZ7S	Ebay used $165-700
A18	Auto Tuner, 500 W.	SGC	SG235	untested	350	Ed Nes.	
A19	Electronic Keyer	Heathkit		untested	20	NZ7S	
A20	Mobile Antenna Mount	SGC	QMS-??	untested	40	NZ7S	new $90-170
A21	Auto Tuner	SEA	??	untested	40	NZ7S	like sgc's
A22	Triband Beam	Hy-Gain		Few Missing parts	100	KOSN	
A23	Handbooks	ARRL	1950-1980	OK	Free	KGVO	
A24	Vintage Mic	Astatic	JT-30	Untested	50	KGVO	Ebay sales $50-300
A25	RC checker	CDE		untested	30	KGVO	
A26	Transceiver	Collins	RT-91ARC-2	untested	100	KGVO	Aircraft Military
A27	Transverter Interface	Down E. Micro		untested	offer	KGVO	
A28	Low pass Filter	Drake	TV-3300	untested	20	KGVO	
A29	Receiver	Hallicrafters	SX-100	fair	150	KGVO	
A30							
A31	Vintage Speaker	Hallicrafters	PM 23	Nice, untested	150	KGVO	
A32	Vintage Speaker	Hammarlund	S-100	Nice, untested	60	KGVO	
A33	AC Power Supply	Heath Kit	HP-23-A	works		KGVO	for the HW-101
A34	SSB Transceiver	Heath Kit	HW-101	needs repair		KGVO	Ebay $90-300
A35	HF Xcvr + Power Supply	Heathkit		untested	150	KGVO	
A36	Oscilloscope	Heathkit	IO-4105	untested	30	KGVO	
A37	Power/SWR Meter	Heathkit	HM15	untested		KGVO	
A38	Vertical antenna		Dipole 80	?		NOAA	
A39	Receiver	Heathkit	HR-10	untested, poor	offer	KGVO	Ebay sales $100-300

A40	SSB Adapter	Heathkit	SB-10	untested	40	KGVO	
A41	Test Oscillator	HP	650A	untested	offer	KGVO	
A42	Rotor Control	Hygain	DCU-1	untested	200	KGVO	
A43	2M FM Transceiver	Kenwood	TR7400A	no output	10	KOSN	
A44	HF Transceiver +Man	Kenwood	TS-520	non-working	100	KGVO	
A45	Transmitter	Meissner	EX	restored	offer	KGVO	Restored by KK7UV. Nice.
A46	Voice Keyer	MFJ	MFJ-432	untested	30	KGVO	
A47	Fwd/Refl. pwr meter	Midland	23-126	untested	10	KGVO	
A48	2 mtr mobile Xcvr	Radio Shack	HTX-242	untested	40	KGVO	
A49	Field str/SWR meter	Radio Shack		untested	10	KGVO	
A50	VHF/UHF/FM amp	Radio Shack		untested	20	KGVO	
A51	Gen. Coverage Rcvr.	Realistic	DX302	Works Good	125	K7MTD	Ebay sales $80-350
A52	Receiver	Signal Corps	R-392/URR	fair	300	KGVO	Stromberg Carlson
A53	VTVM	Simpson	311	untested	25	KGVO	
A54	Oscilloscope	Telequip.		untested	20	KGVO	
A55	Var. power resistors	Tru-ohm, etc		untested	10	KGVO	box of ~20
A56	Scanner	Uniden	BC9000	works	50	KGVO	
A57	Many electronic parts too numerous to list.				offer	KGVO	some free, door prizes
A58	Misc. meters			untested,	40	KGVO	2 boxes full
A59	RCA male Patch cords			good	10	KGVO	box of ~20
A60	Peter Dahl 10 HY @ 1 A		new	new		KGVO	
A61	Peter Dahl 40 HY @ .6 A		new	new		KGVO	
A62	Peter Dahl 9 HY @ 1.5A		NEW	NEW	200	KGVO	66 pounds - pick up only
A63	Peter Dahl Swgng Choke		new	new		KGVO	
A64	Voice Synthesizer	Icom	UT-102			?	
A65	Antenna Tuner + man	MFJ	MFJ-934			?	
A66	TRIPLEXER	Comet	CFX-324			K7MTD	
A67	DUPLEXER	Comet		works		KGVO	
A68	2 mtr, 30 Watt amp	Mirage	B23	works	25	K7MTD	
A69	Vintage Mic	Astatic	JT-30	worn,untested	50	KGVO	Ebay sales $50-300
A70	Rotor Control	Hygain	DCU-1	untested	100	KOSN	
A71	Power Supply	Heathkit	HP23C	untested	40	KGVO	Looks nice
A72	VHF/UHF Transverter	Yaesu	FTV-700	untested		KGVO	Looks good
A73	Transceiver-HF	Heathkit	SB-101	untested	40	KGVO	Looks OK needs clean
A74	Transmitter-HF	Heathkit	DX-20	untested	30	KGVO	Looks good
A75	Receiver	Knight	R-100	untested	30	KGVO	
A76	Tube Tester	Sencore	MightyMite7	untested	30	KGVO	Ebay $120-200
A77	RF Signal Generator	Heathkit		untested	20	KGVO	
A78	HF Transceiver	Yaesu	FT757GX	untested	50	KGVO	Looks OK
A79	Auto Antenna Tuner	Yaesu	FC-757AT	untested	60	KGVO	Ebay used $100-200
A80	Transmitter	Meissner	Deluxe	restored	offer	KGVO	restored by KK7UV, nice!
A81	Multi-band dipole	B&W	1.8-30	new , unused	offer	KGVO	HRO price-HUGE!!!
A82	Meter Helper	Sinnader	S-101	untested	50	KGVO	Ebay $80-110
A83	Antenna Switch-5 pos.	Home brew		untested	50	KGVO	inc. wattmeter, nice

A84	HF Transceiver	Yaesu	FT101	untested	offer	KGVO	
A85	External VFO	Yaesu	FV101	untested	offer	KGVO	Ebay $40-150
A86	Transmitter	Johnson	Adventurer	untested	offer	KGVO	Ebay $60-160
A87	Antenna Tuner	MFJ 969	VT2 Deluxe	untested	75	KGVO	
A88	Multi-meter	Simpson	311	untested	20	KGVO	Ebay $35
A89	HF transceiver	Icom	IC-751	lights up	100	KGVO	RX works, TX?? Ebay$200
A90	Receiver-vintage	Hallicrafters	SX-99	untested	offer	KGVO	Ebay $50-100
A91	Transmatch	Dentron	160-10 AT	untested	35	KGVO	Ebay $50-100
A92	VTVM	Eico	239	untested	20	KGVO	
A93	Antenna Tuner	MFJ	940	untested	20	KGVO	Ebay $40
A94	VHF/UHF Transceiver	Kenwood	TK-790	untested	40	KGVO	Ebay$120. No control head
A95	Receiver	Hallicrafters	SX-62B	untested	50	KGVO	no cabinet. Ebay $120-200
A96	Solder station	Zeny		untested	45	KGVO	hot air smd rework, like new
A97	Receiver	Drake	2A	untested	40	KGVO	lights up
A98	DSP Noise reduction unit	JPS Comm.	NIR-10	untested	35	KGVO	Ebay $50-130
A99	Digital Interface	Rigblaster	Advantage	untested	25	KGVO	Ebay $35-100
A100	Photo lighting box	Novatron	1040	untested	offer	KGVO	
A101	Power Supply	Heathkit	HP-23C	untested	75	KGVO	Nice! Ebay $150-200
A102	Variable Inductor	?	1254	untested	25	KGVO	ribbon coil, nice mechanism
A103	Frequency Programmer	Yaesu	FYG-4	untested	15	KGVO	Like new. Ebay $25
A104				untested		KGVO	
A105	HF Linear Amplifier	Heathkit	SB-1000	untested	400	KGVO	Ebay $600-$800
A106	Vintage AM Portable Rad.	Zenith		untested	30	KGVO	in carrying case
A107	Shortwave Receiver	Drake	SW-1	untested	100	KGVO	Looks new. Ebay $200
A108	Low Pass Filter	I.C.E.	DC-54 mhz.	untested	20	KGVO	new in package
A109	Receiver	Knight	R-100	untested	30	KGVO	Ebay $45-100
A110	SWL Receiver	Sony	CRF 320	works	700	KGVO	Ebay $500-2000. Very nice.
A111	Oscilloscope	Heathkit	IO 4105	untested	15	KGVO	Ebay $25. looks nice
A112	Vintage Speaker	Hammarlund	S-100	untested	25	KGVO	Ebay $50-100
A113	Vintage Speaker	Hallicrafters	SX28A match	untested	offer	KGVO	Ebay $100-300
A114	Transmitter	Heathkit	DX-20	untested	30	KGVO	Ebay $60-115
A115	Loudspeakers (qty.2)	Dayton		untested		KGVO	
A116	Wide Range Oscillator	HP	200	untested	30	KGVO	Ebay $50-100

From the ARRL Northwest Division Newsletter:

Attention Montana, ARRL needs you!

As no nomination petitions were received at HQ for the Section Manager position, it will be posted again in QST. Kevin, W1KGK decided not to run for another term. A formal notice will be coming out from ARRL HQ about this. If you are interested, or if you know someone that might be interested, let me know and I can help you through the process. The Section Manager terms are two years in length and more information can be found here: Section Manager I would like to thank Kevin for the years he served and wish him the best.

Mark J. Tharp, KB7HDX ARRL Northwestern Division Director

HARC's 147.04 New-Repeater Coverage

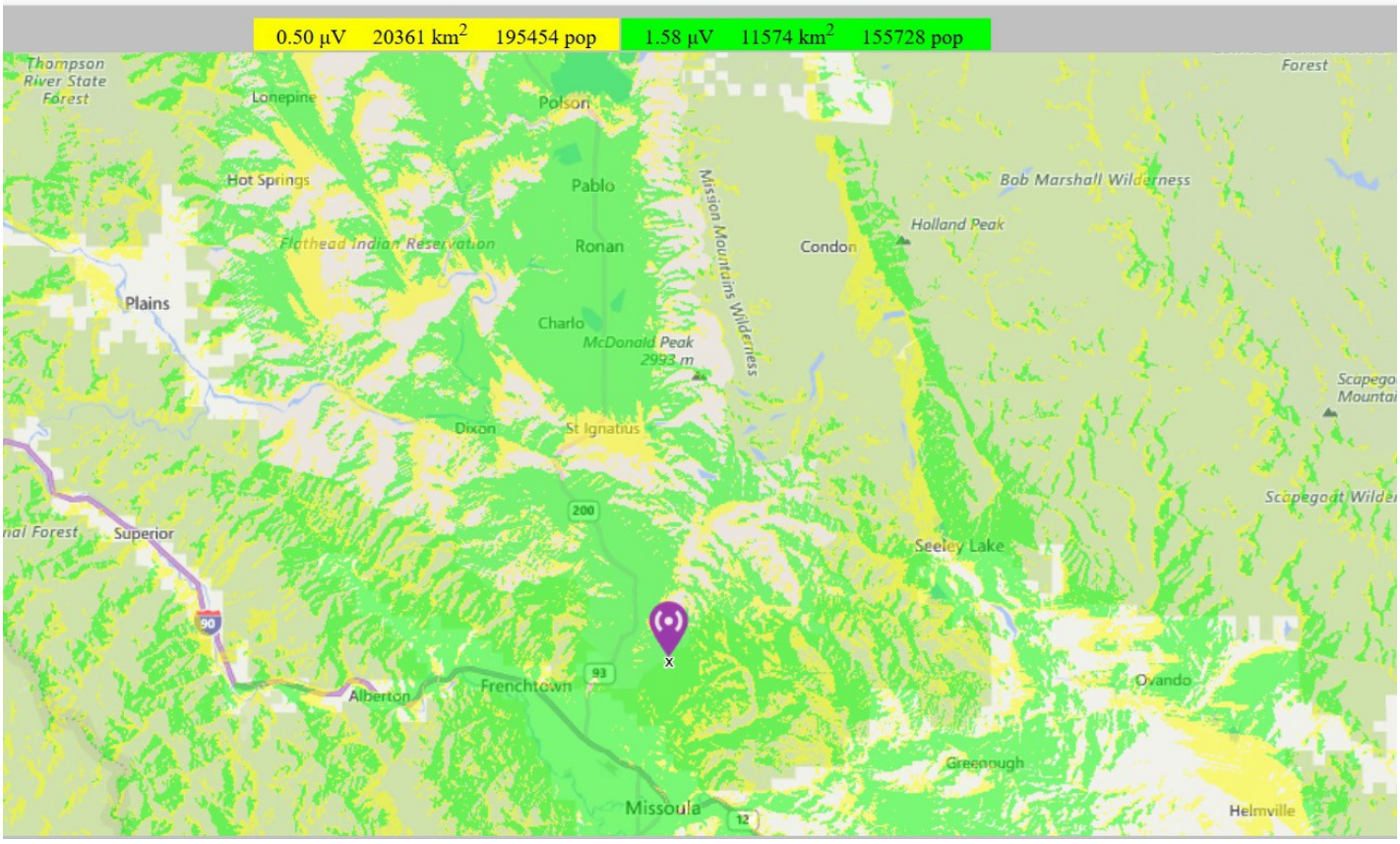
By K7VK

Some reports indicate improved coverage for the new 147.04 repeater. The following maps give an estimation of the predicted repeater coverage. The yellow (weaker signal) and green (stronger signal) are 'microvolts' received from the repeater's signal. Operators interested in predicting mobile radio or repeater coverage can use a simple 'online' tool. It's Radio Mobile and is at; https://www.ve2dbe.com/english1.html. Using this predictor, you can also 'zoom-in' on specific locations for greater detail and select different base maps including satellite imagery.

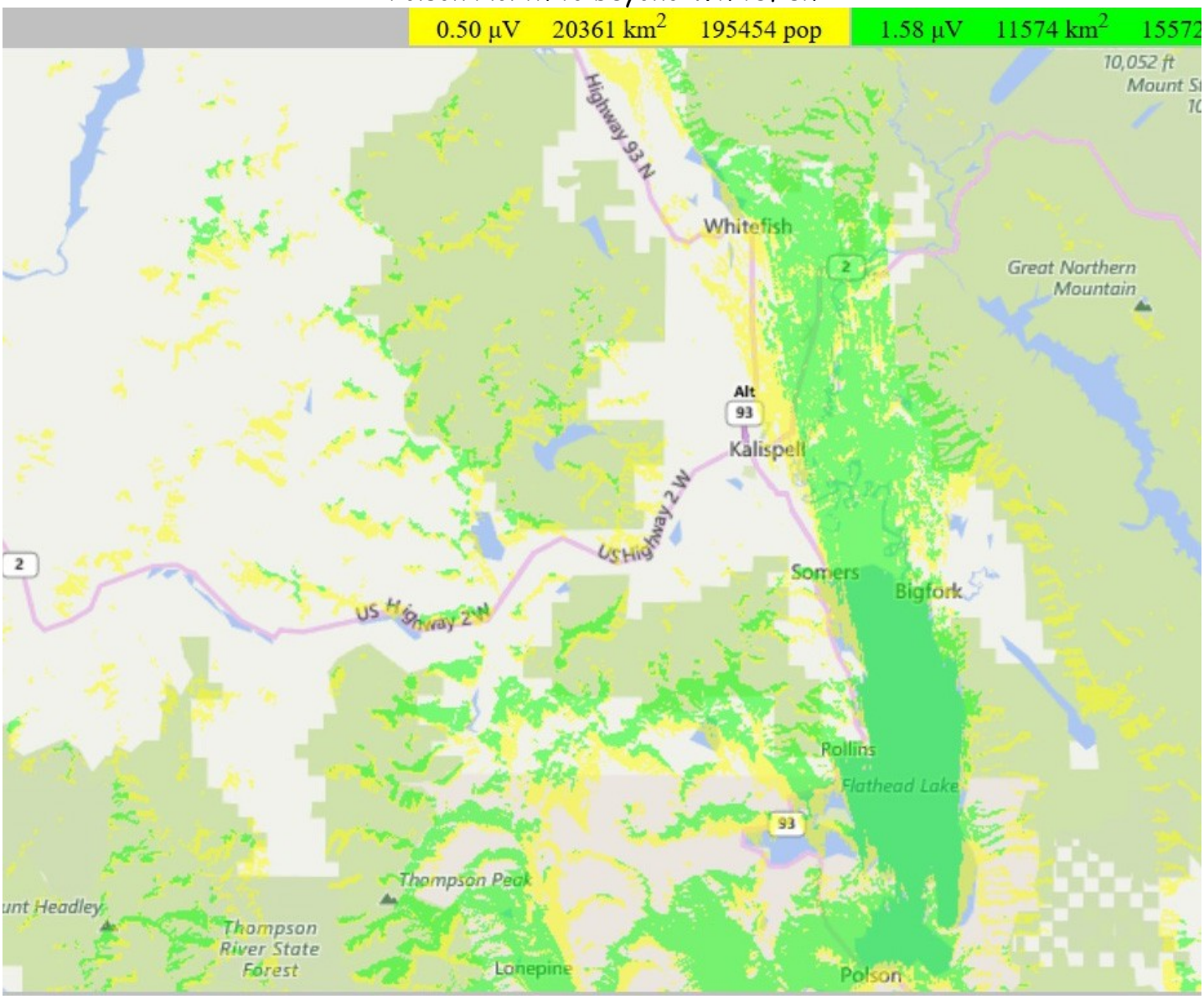
Many operators are interested in the coverage. If you are successfully getting into the repeater from marginal or outlying areas (see maps), please note the location and send along your report. Both FM analog and FM digital (C4FM) comparisons are great too. For example, if you happen to be in the upper Blackfoot River, Whitefish, Lolo Creek, Philipsburg or other remote areas it will help verify the following repeater coverage predictions. Please send your location and signal/station report to one of the following: K7VK, K7MTD, NZ7S or the repeater board chair, W7RPG on the air or at their QRZ email addresses. These coverage reports may be listed in future Hellgate Statics.

PREDICTED REPEATER COVERAGE MAPS

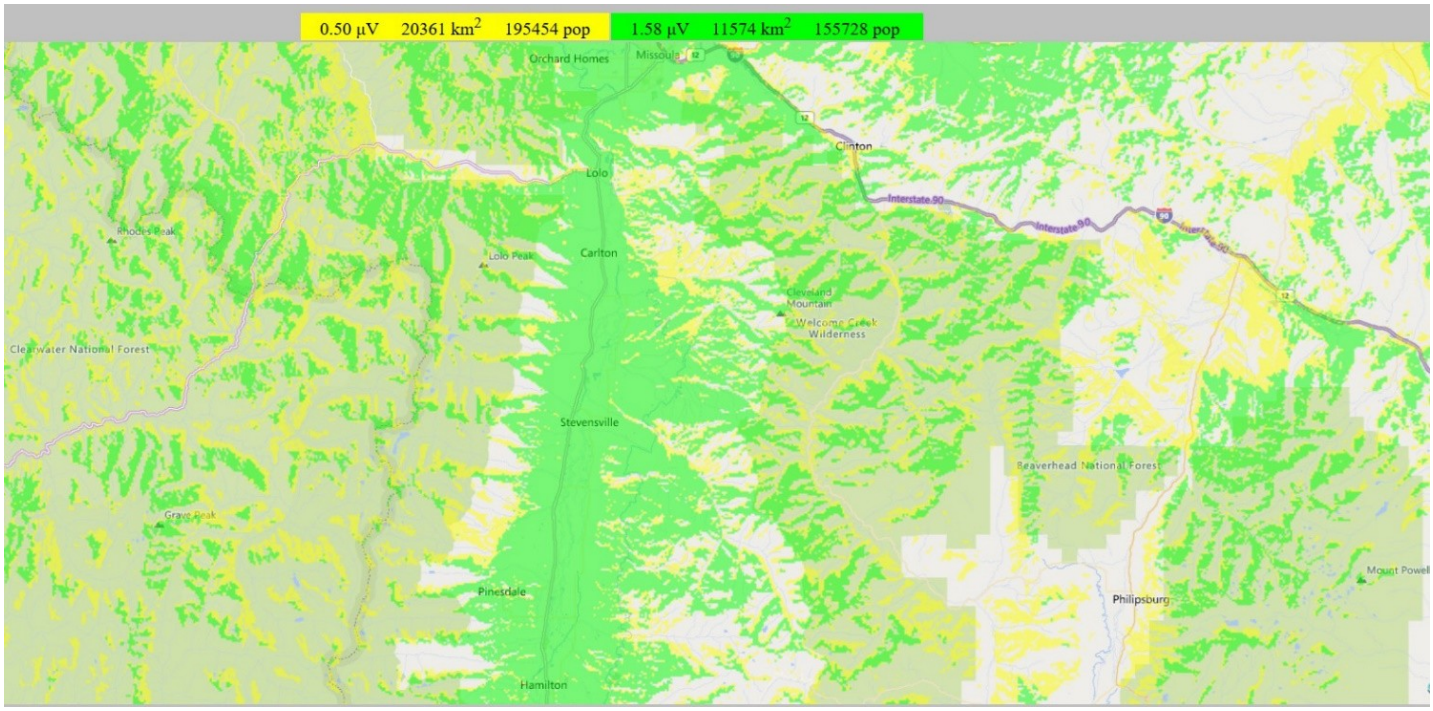
Missoula North to Polson



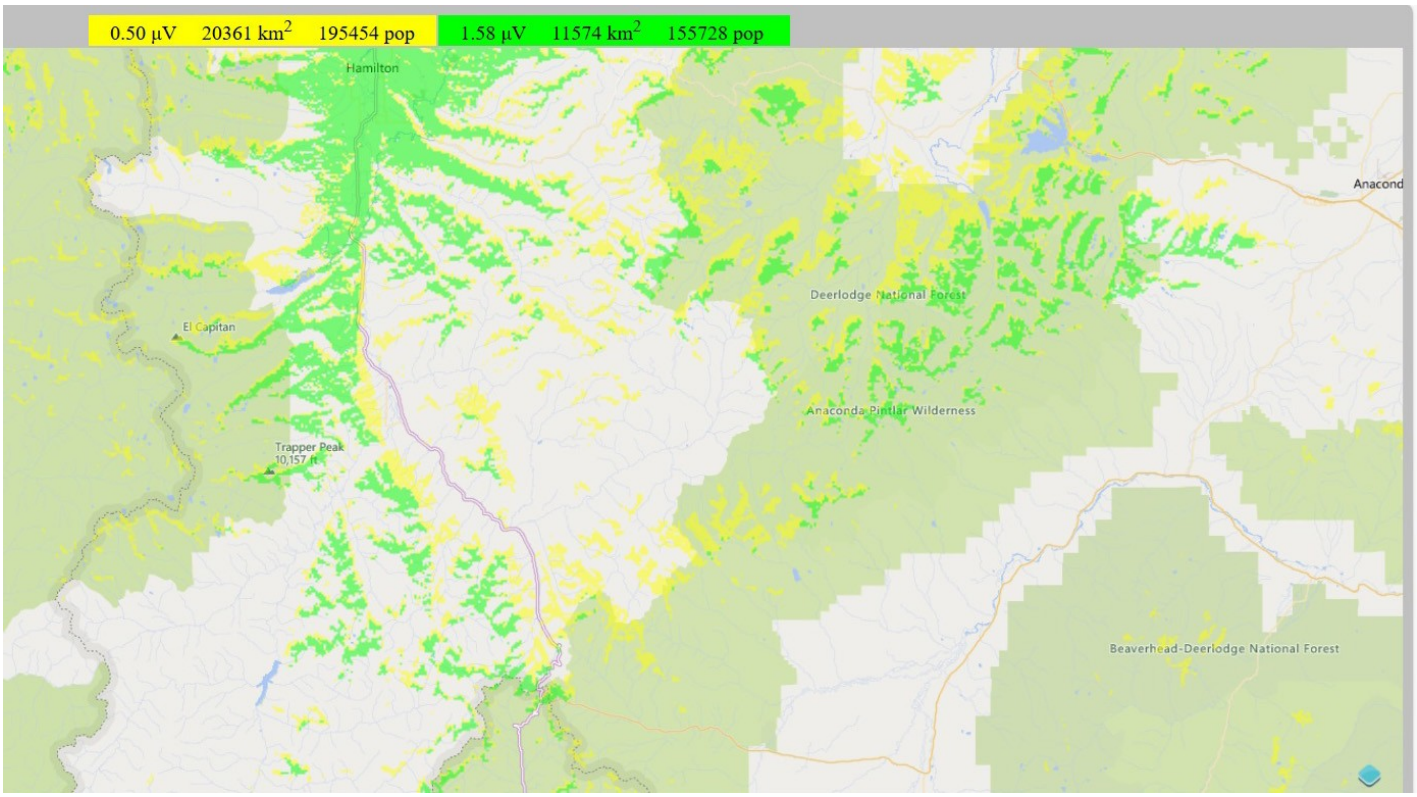
Polson North to beyond Whitefish



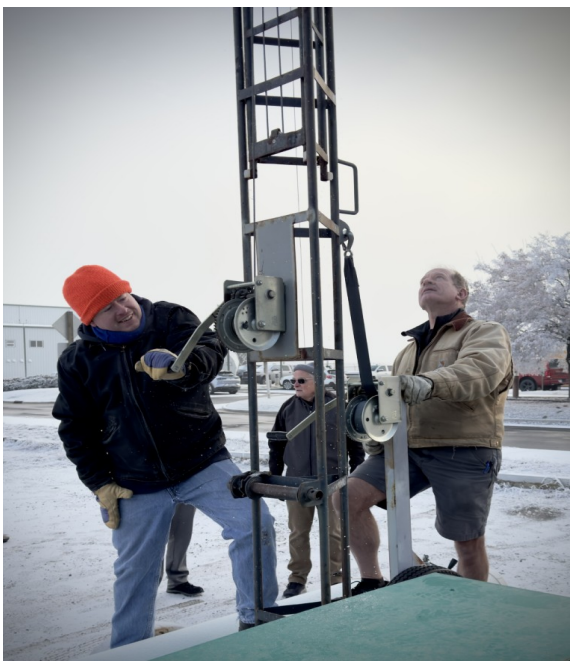
Missoula South to Hamilton



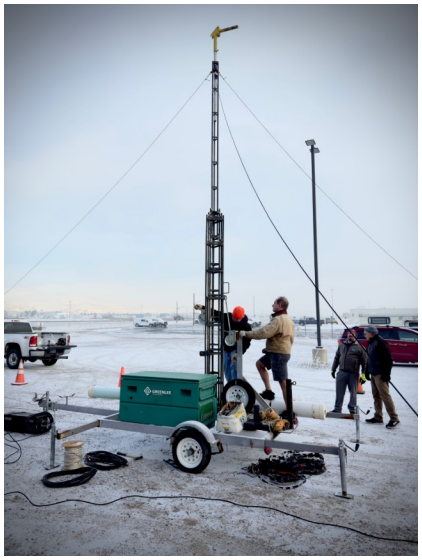
Hamiton South to Lost Trail Pass



Skywarn Photo's and info



After a four year break, Skywarn Recognition Day 2024 was back on schedule. We received an invitation from our host, The National Weather Service, through fellow Ham Trent Smith.

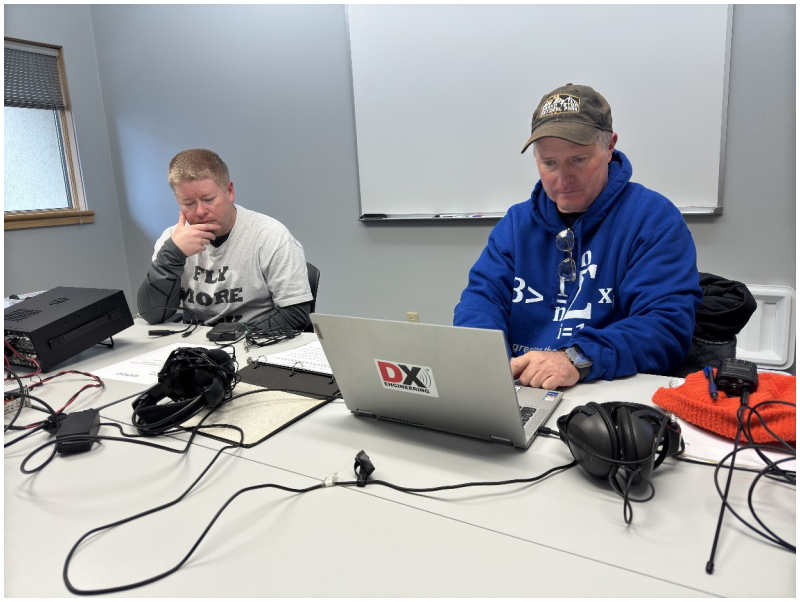


Several members came to help setup the club's beam antenna Friday afternoon to begin transmitting at 5:00 p.m. local time.

Hundreds of successful HF contacts were made to stations using the weather station's call sign, WX7MSO, all across the world. Other modes used were digital 2m, DMR and IRLP. Most contacts were made by our new star operator Adam Davis, KK7NOM, and others who were able to make DX contacts that included South Africa and Iceland.

Friday's activities ended around 9:00 p.m. and began again Saturday morning around 6:00. Operations were ongoing throughout the day until we began tear- down at 5:00 p.m.

Fun was had by all, happy to be back participating in the Skywarn event once again. Thanks to those who joined in and made this year's event such a success!



Contacts:

Weather Stations – 22

Total QSO's – 300

HELLGATE AMATEUR RADIO CLUB
AGENDA – 13 Jan 2025

Meeting called to order at 7:__ PM **(8 needed for business)**
Introductions. Please make sure you signed the attendance sheet Quorum Y/N ____

Last meeting minutes, Nov: _____ Motion to approve minutes: 1St_____ 2nd_____
Discussion _____ Vote: P/F/T

Treasurer's report: KJ7HYG, _____Motion to approve report: 1St _____2nd _____
Discussion_____ _ Vote: P/F/T

Repeater Committee Report: W7RPG, _____Motion to approve report: 1St _____2nd _____
Discussion_____ _ Vote: P/F/T

HF Committee Report: K0SN, _____Motion to approve report: 1St_____2nd_____
Discussion _____ Vote: P/F/T

Events for 2024:

Jan	1	New Years Day
Jan	13	HARC Testing and Meeting
Jan	20	MLK Jr Day
Jan	20	Inauguration Day (DC,MD,VA)

HARC Net every Saturday morning @ 9:00 AM on 147.040 Repeater – Buy/Sell – During.

HARC Discussion List

1. _____
2. _____
3. _____

VHF Net Control Station assignments:

Jan	01	N7PAS	Feb	05	_____
Jan	08	_____	Feb	12	_____
Jan	15	_____	Feb	19	_____
Jan	22	_____	Feb	26	_____
Jan	29	_____	___	__	_____

Reminder: Backup is always the next person in line as the net control.
Good and Welfare.

***** Next Club meeting: Feb 10 2025**

Is there any other business?

_____ **Meeting Adjourned at _:__ PM.**

Program: APRS tracking the ISS by K7MTD

January 2025

Hellgate Amateur Radio Club

Calendar of Events

Board: NZ7S, W7RPG, KJ7THG, K7MSO

Editor – N7PAS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 HAPPY NEW YEAR ERC Net 7:30 on 146.900-88.5T BARC Net 8:15 on 146.720-203.5T HARC Net 9:00 on 147.040-No Tone	2	3	4 HARC Saturday Net 9:00AM on 147.040 Repeater.
5	6	7 Informal Chat net (Roundtable) on 146.90Mhz -offset 88.5Hz tone at 8:00PM	8 ERC Net 7:30 on 146.900-88.5T BARC Net 8:15 on 146.720-203.5T HARC Net 9:00 on 147.040-No Tone	9	10	11 HARC Saturday Net 9:00AM on 147.040 Repeater.
12	13 HARC Testing 5:30 & Meeting 7:00PM	14 Informal Chat net (Roundtable) on 146.90Mhz -offset 88.5Hz tone at 8:00PM	15 ERC Net 7:30 on 146.900-88.5T BARC Net 8:15 on 146.720-203.5T HARC Net 9:00 on 147.040-No Tone	16	17	18 HARC Saturday Net 9:00AM on 147.040 Repeater
19	20 MLK Jr Day	21 Informal Chat net (Roundtable) on 146.90Mhz -offset 88.5Hz tone at 8:00PM	22 ERC Net 7:30 on 146.900-88.5T BARC Net 8:15 on 146.720-203.5T HARC Net 9:00 on 147.040-No Tone **Christmas Day**	23	24	25 HARC Saturday Net 9:00AM on 147.040 Repeater
26	27	28 Informal Chat net (Roundtable) on 146.90Mhz -offset 88.5Hz tone at 8:00PM	29	30	31	

HARC Events: 2025 (Actual Dates to be filled in as they become known)

#	Month	Day	Activity ?????
			←------- We are here
1.	Jan – Mar		No Activities
2.	April		Grizzly Triathlon
3.	April	26	Riverbank Run
4.	June	03	Trail Rail Run
5.	June	21-22	Field Day
6.	June	27-29	Missoula Marathon – See Coming Events – pg 1
7.	July	04	W7PX Special 4th of July Event – Cabin needs to be reserved.
8	July	18-20	Glacier Waterton Hamfest
9.	Sept	06	Fox Hunt ?? 1 per year on Saturday from 10:00AM to 4:00PM
10.	Oct	??	Bitterroot Mushers Dirt Dash We have secured Lubrecht for Oct 10-12, 2025 and are planning to hold the event again next year and are excited to bring it back. Do you think your group would be interested? We sincerely appreciate your support and would have to significantly scale down our event without you
11.	Oct	16	Great Montana Shakeout Drill
12.	Oct	18-19	JOTA/JOTI
13.	Nov	04	Election Day - 5th
14.	Dec	5-6	Sky Warn Recognition Day (0000Z-2359Z = 1700 Fri – 1659 Sat) First Fri Evening – Sat Morning/Afternoon every December – as listed below. *2 December 2023, 7 December 2024,* ***6 December 2025****, 5 December 2026,* *4 December 2027, 2 December 2028, 1 December 2029*
15.	Dec	08	HARC Christmas Dinner Meeting

HARC Programs for 2025

Which amateur radio topic would you like to see presented?

Do you have a program that you would like to present?

Do you know of a person that has a certain level of expertise in amateur radio that could give a presentation?

If you would like to be involved in the presentations, please let me know.

Name_____

PH: _____

Email:_____

Please email me your thoughts to **dsbaldwin@live.com** and I will compile a list of programs for the 2025 year