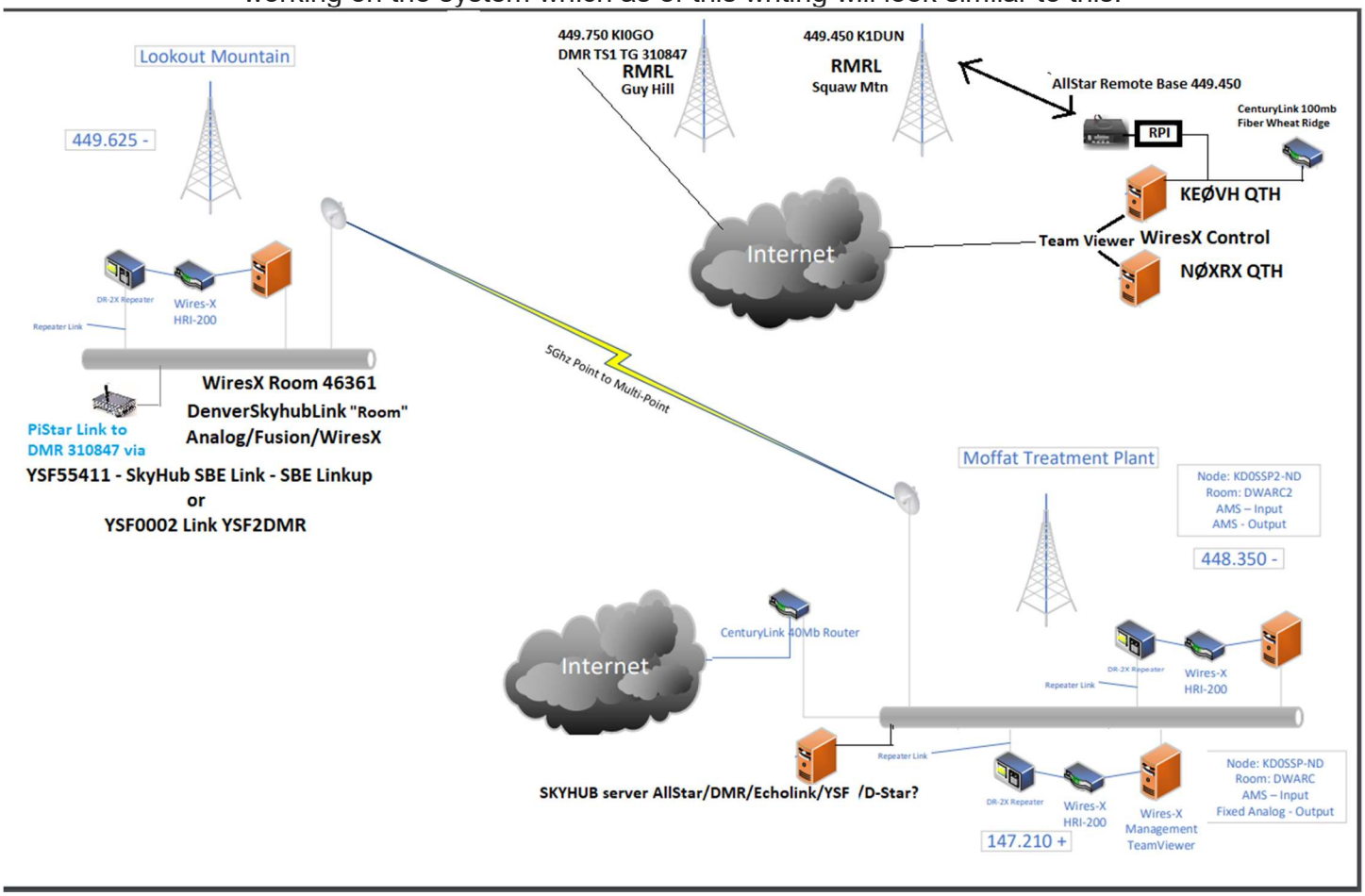
The KEØVH Hamshack

June 2019

Welcome to FINALLY SUMMER!

Lots of projects going on with the warm weather for both work and Ham Radio Ops here in the Denver front range area. We continue to move ahead with developing the "Denver SKYHUBLINK" system for analog/AllStar/DMR/Fusion linking. Skyler KGØSKY and I, Mark NØXRX, other local helpers have been working on the system which as of this writing will look similar to this:



The network will base out of the Moffat Treatment Plant in Lakewood, with internet being supplied thru CenturyLink and beamed up thru Ubiquity AIROs units. The SKYHUB server, which houses the links for AllStar Skyhub node 46079, DMR Link to DMR TalkGroup 310847, YSF66411 – SkyHub SBE Link – SBE Linkup, and via the DMR link to YSFtoDMR. There is a P-25 Reflector available and with the possible addition of a D-Star link thru a DV Dongle later. We are actually looking for someone who would like to help us (sponsor) provide that, so if interested let me know 😊! With the supplying of a Yaesu Fusion DR-2DX repeater now also for 449.625, long operated by Scott WØKU with a GE Master II repeater, I have now taken over operations of the 449.625 repeater, and as seen in the diagram above, it will now have both its usual analog operations available, plus Fusion Digital WiresX capabilities. The old analog repeater is still there (installed in a "new" rack) and will have AllStar Node capabilities for the Skyhub system in case of a breakdown of the Fusion repeater. One of the Fusion repeaters will stay hard linked to the "DenverSkyhubLink" thru the Fusion WiresX "DenverSkyHubLink" Fusion "room". The other will be able to be steered to whatever Fusion Room that the operator using the repeater may choose, such as "America Link" or any of the hundreds of other Fusion rooms in use around the world. My across the street neighbor Bernie N3ZF has his country count contacted up past 80 using the KDØSSP 448.350 repeater thru my WiresX node I am running out of my home to the repeater. Soon, as seen in the drawing above, those operations and the one for 449.625 on Lookout Mountain will be in operation. This will free up my Yaesu FTM-100 for becoming my "base" dual band Fusion rig at home.

Robert KC8GPD and Skyler KGØSKY moving the 449.625 GE Master II out of the old rack

Jack KEØVH working on the connections

The new rack and home of 449.625 NOW KEØVH/RPT with the old GE Master II, S-Com controller, and the NEW FUSION REPEATER all setup and operating on air.

The Fusion repeater operates on whatever mode it hears using the Yaesu AMS (Automatic Mode Select) system. SO, if it hears analog that is what it will repeat. 449.625 has been on the air in Denver for nigh on 20 years or so always with a 141.3pl, so that is maintained as one of the “heritage” repeaters in the area, but now capable of digital and soon with the addition of the WiresX network it will have worldwide linking capabilities. In the past IRLP was used and the old repeater was going to be moved to AllStar. With “DenverSkyhubLink” connected it will also now have those capabilities beyond any before. We will have more developments on the way, so STAY IN TOUCH!

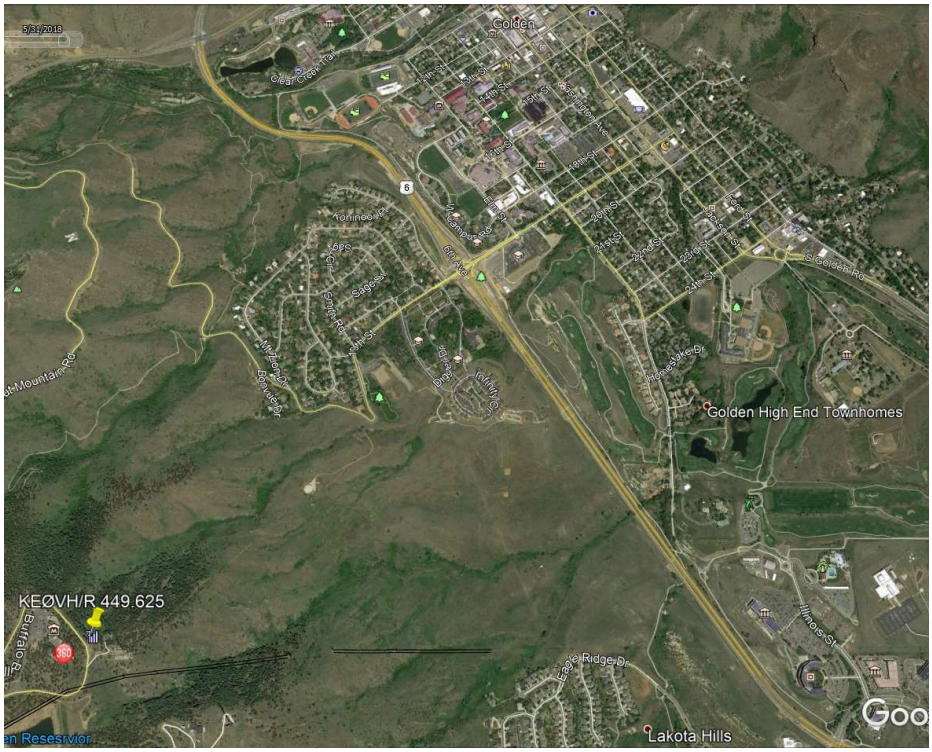
****

For testing and temporary operations until we move the old high gain antenna from its old site (by the way thanks to Scott WØKU, Derek KCØLCD and Robert KC8GPD for getting the old antenna down and transported to the new site) we are operating on a temporary antenna until we can raise the higher gain older one. Skyler KGØSKY, Robert KC8GPD and I on the day we moved the 449.625 repeater into its new home put up the temporary antenna (it have been stored in the building abandoned) for operations. Coverage is limited south and southeast of Lookout Mountain above Golden but is really great in a mobile to the north, north east, and east. It will vastly improve with the addition of the old ‘625 antenna here soon.

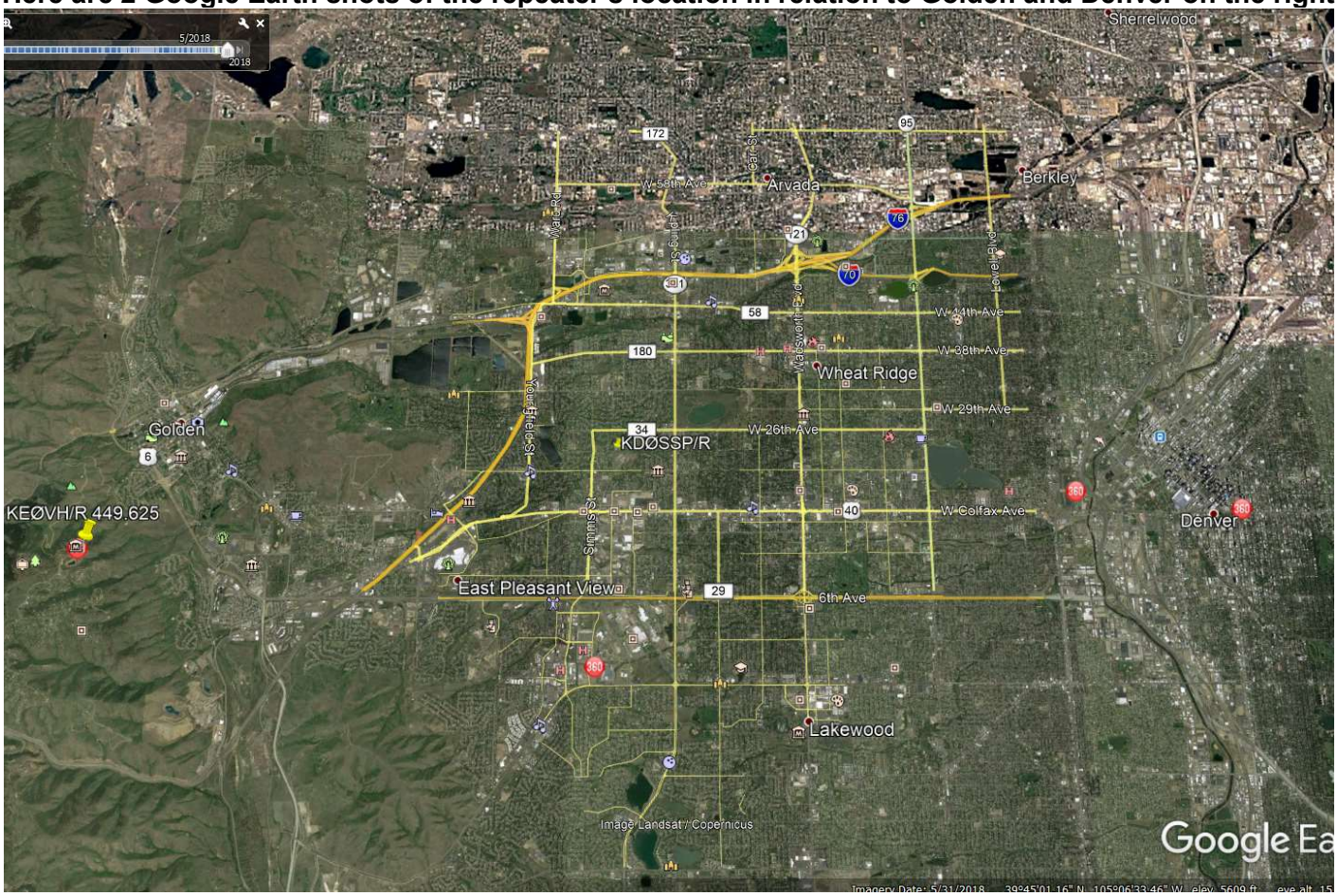
Skyler KGØSKY ready to raise the temp test antenna into place at “SmogView”

Skyler putting the sealant on the coax connection of the temporary testing standby antenna

Oh yes, why “SmogView”? Scott told me that the name had been bestowed on the site on the east side of Lookout years ago. I had never heard it but evidently back when cars spewed lead gasoline exhaust into the atmosphere it could be hard to see downtown Denver from the site. So, there you go……

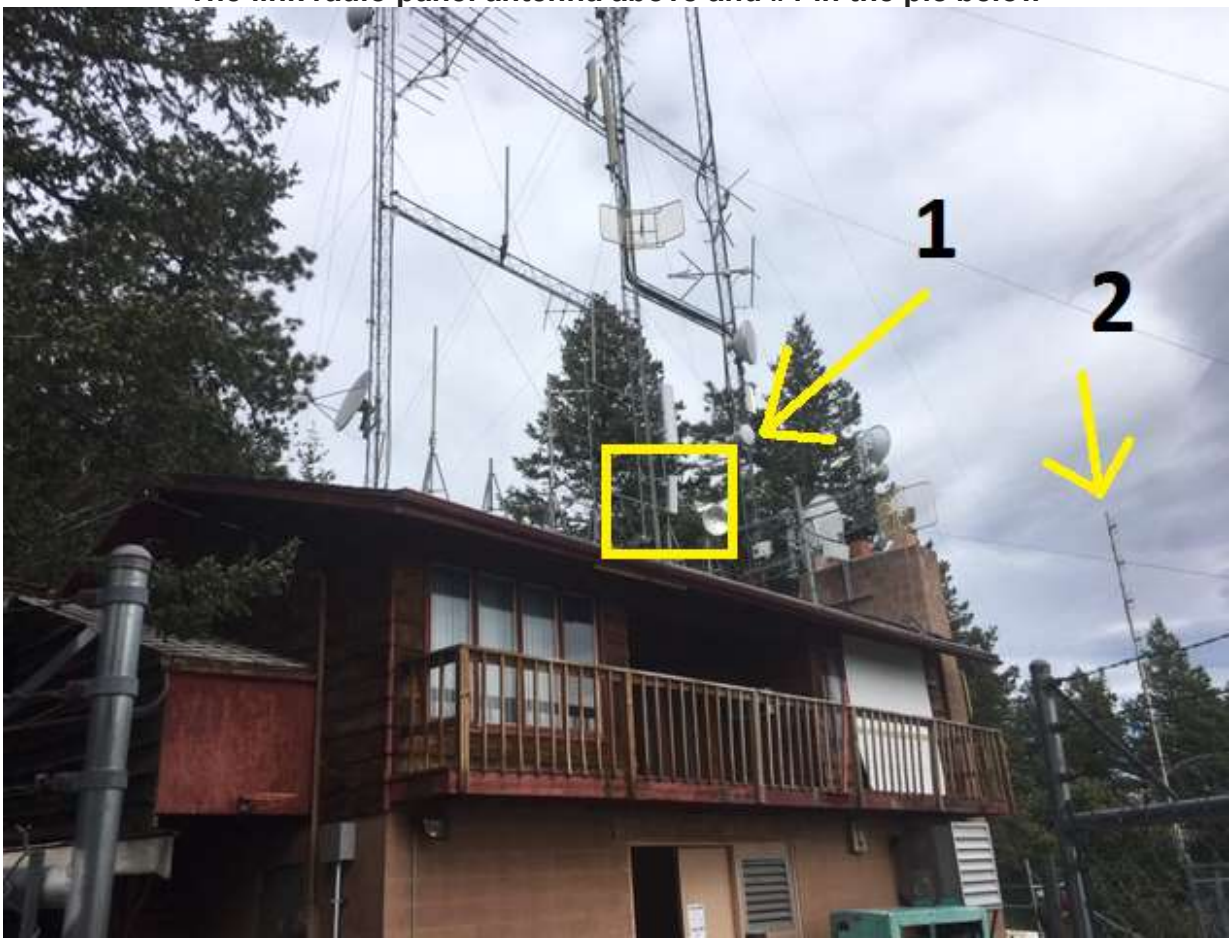


Here are 2 Google Earth shots of the repeater's location in relation to Golden and Denver on the right



The next step in the evolution is the connecting of the internet system for Lookout which will also go to my house in Wheat Ridge and Mark NØXRX home in Arvada for command & control of the systems. The pictures below show the panel antenna I installed at “SmogView” and the rest of the system pictures will follow in a future “HamShack”. The new “SkyHub” server which was built and configured by Skyler also will be part of the system and reachable remotely. All in all, it will be we hope a premiere communications network for any emergency, or of course, just for day to day ham radio fun and friendly communications.

The link radio panel antenna above and #1 in the pic below



#2 is the temporary 449.625 antenna

The view towards Golden below to NE Denver across N and S Table Mountains. The pole in the picture above will be the new mount for the high gain 449.625 antenna soon.

Bernie N3ZF wrapping up operations after getting the panel antenna installed

More to come soon! Check back next month.

++

How about this for a GREAT IDEA!

I saw this in a video about Fusion connections. This is an FTM-100 being used as a node radio. Could be adapted to just about any radio. GREAT IDEA!

While at the Dayton hamfest this year KGØSKY was able to tour WLW and see the radio history there. That's a bucket list item for sure!

The Hamshack Archive Links

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201701Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201702Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201703Mar.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201704April.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201705May.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201706June.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201707July.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201708Aug.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201709Sep.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201710Oct.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201711Nov.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201712Dec.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201801Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201802Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201803Mar.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201804April.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201805May.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201806June.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201807July.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack20180809AugSept.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201810Oct.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201811Nov.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201812Dec.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201901Jan.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201902Feb.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201903Mar.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201904April.pdf

http://www.ke0vh.com/hamshack/archives/TheKE0VHHamshack201905May.pdf

4 Years AGO: http://www.smpte-sbe48.org/wp/2015/06/
5 Years AGO: http://www.smpte-sbe48.org/wp/2014/06/
6 Years AGO: http://www.smpte-sbe48.org/wp/2013/06/

SBE VHF/UHF Chapter 73’ of the Air HAMnet

The SBE Chapter 73 of the air UHF/VHF Hamnet is every Monday at 9 p.m. ET (6 p.m. PT) worldwide via Echolink KG0SKY-L, node 985839 (available via computer and radio), Allstar node 46079, DMR Talkgroup 310847, AND try it with your hotspot on YSFtoDMR then TalkGroup 310847. The SBE UHF/VHF Hamnet is based in Denver on 449.450, pl 103.5, and the 448.350 Fusion repeater, linked to WiresX room “DenverSkyhubLink” node 46361

And Soon on the network: KE0VH-RPT 449.625, Fusion/Analog pl 141.3

You can listen on the LIVE STREAM thru Broadcastify at:

https://www.broadcastify.com/listen/feed/25448/web

or https://hose.brandmeister.network/group/310847/

We hope you'll join us.

See the latest edition of "The KE0VH Hamshack" for more information at www.ke0vh.com.

The Society of Broadcast Engineers

9102 North Meridian St, Suite 150
Indianapolis, IN 46260
317-846-9000 ■ Fax 317-846-9120

73’ from the “Shack”