

Rolla Regional Amateur Radio Society

General Meeting



September 12, 2016

Agenda

Welcome
Test Session Results
Upcoming Events
Tech Talk
Announcements





Welcome

Visitors & New Members

August Test Session Results



Trevor Perkins
New Technician

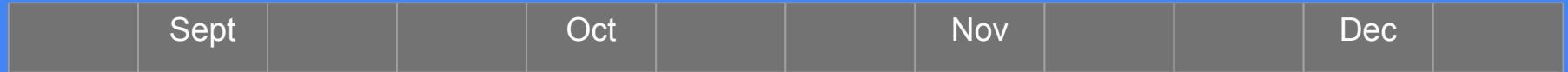


Mitchell Perkins
New Technician

Upcoming Events

18 Hour Race
Need a couple operators (mobile)
Afternoon/Evening mainly

10 AM
See Shawn



●
●
2 to 4 PM @ 146.00 Mhz

●

●
Need Volunteer
Coordinator

●

A vintage radio receiver, likely a Yaesu FT-101, is shown in a dark, dimly lit setting. The device features a prominent digital display in the center showing the number '4170.90'. To the left of the display is a large, circular speaker with a metal grille. The front panel is densely packed with various controls, including several rotary knobs and a large volume knob on the right side. The overall aesthetic is that of a classic piece of electronic equipment.

Tech Talk: Weather Satellite RX

Stuff in Space

~250 Miles

~500 Miles

~22k Miles



Ease of Access

137 MHz and 1.7 GHz

1.7 GHz Only

Low Power 1.7 GHz

NOAA-15,18,19

Suomi NPP / JPSS-1

GOES

APT

Automatic Picture Transmission

VHF Band (137 MHz)

~40 kHz bandwidth

Limited to two sensors (satellite chooses)

Low Resolution (4 km per pixel)

Circularly Polarized

HRPT

High Resolution Picture Transmission

UHF Band / L Band (1.698 to 1.707 GHz)

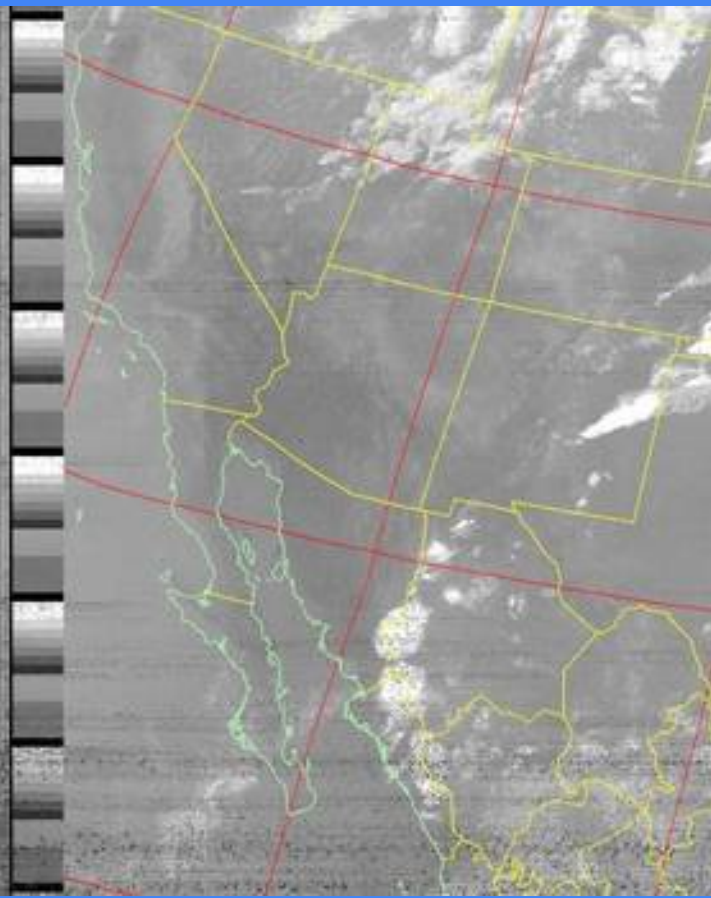
4.5 MHz bandwidth

Five sensors / channels

High Resolution (1.1 km per pixel)

High gain antenna required

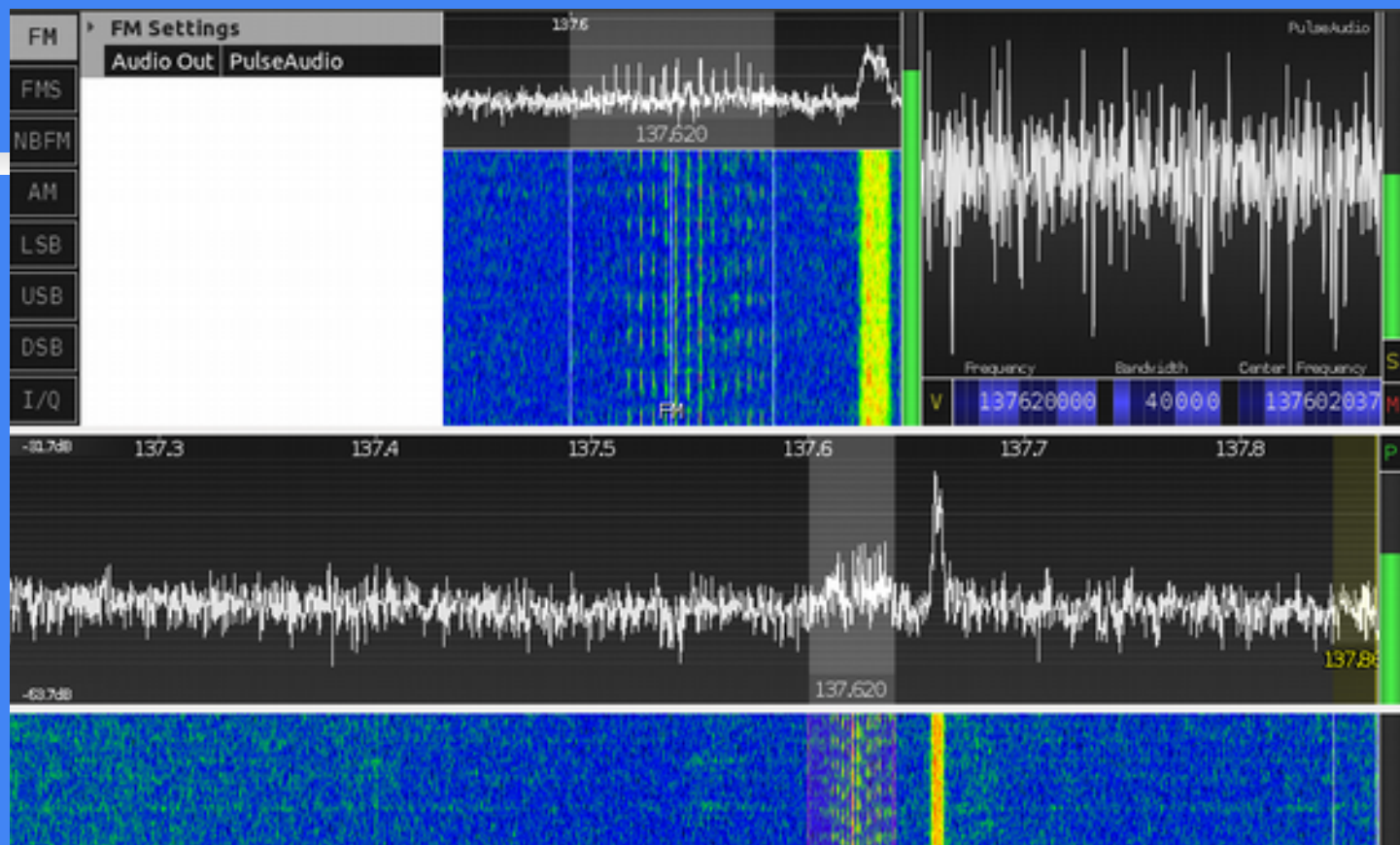
APT Example



APT RX Equipment



Cubic SDR



Next Meeting
October 3rd

