Hello Seek You, Seek You!







Automatic Packet Reporting System

Initial system was developed in the 1980's by Bob Bruninga, a senior research engineer at the USNA. This early version was used to map high frequency Navy ship position reports.

Positions/objects/items

Bob, WB4APR, introduced the amateur radio APRS system in 1992 and it contains a number of packet types including position status, messages, queries, weather reports and telemetry. Positions of fixed stations are configured in the APRS software. Moving stations (portable or mobile) automatically derive their position information from a GPS receiver connected to the APRS equipment

Automatic *Packet* Reporting System

As technology became more widely available, 'Position' was replaced with 'Packet' to better describe the more generic capabilities of the system and to emphasize its use beyond mere position reporting.

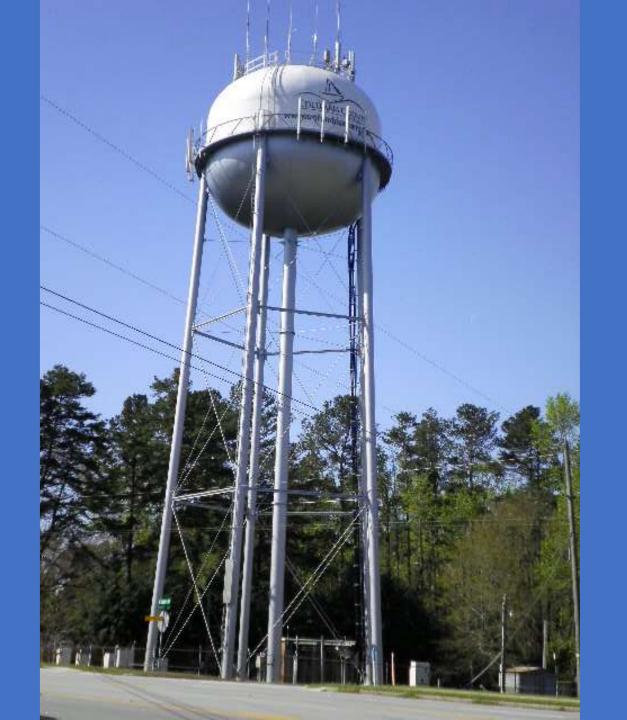
APRS Network

APRS packets are transmitted for all other stations to hear and use. Packet repeaters, called digipeaters, form the backbone of the APRS system, and use store and forward technology to retransmit packets. All North American APRS information is transmitted on one simplex frequency of 144.390. This frequency varies throughout the world as can be seen in the next slide.



Digipeaters & IGates

Digipeaters keep track of the packets they forward for a period of time, thus preventing duplicate packets from being retransmitted. Eventually most packets are heard by an APRS Internet Gateway, called an IGate, and the packets are routed on to the Internet APRS backbone The local digipeater located on a water tank on N. Belair Road also contains two club voice repeaters.









APRS Products

Byonics carries a full line of APRS products, to allow you to track whether you are walking around, driving a car, or flying a high altitude balloon.

TinyTrak Controllers

TinyTrak controllers will allow any 2-meter radio to be paired with a GPS to send location data to the APRS network.



TinyTrak3Plus

The TinyTrak3Plus is a simple, popular way to build an APRS tracker. Simply connect one between a serial GPS receiver and a 2-meter hand held or mobile radio and begin sending your location to the APRS network.



Tiny Trak4

The TinyTrak3Plus and TinyTrak4 are APRS controllers which can be connected between a GPS and any 2-meter radio to transmit a location to the APRS network.

MicroTrak Trackers

The MicroTrak tracker line combines the TinyTrak controller with a GPS and built in transmitter. They are available in portable, car, and high altitude balloon versions, and are pre-configured with your amateur radio callsign.

MT-RTG

The MicroTrak RTG is the easiest way to add APRS tracking to a vehicle. The combo includes everything needed to transmit your location. Just plug into 12V and it is Ready To Go.

MT-AIO

The MicroTrak AIO is a self contained portable APRS tracker. It runs for a week on a set of 8 AA batteries sending a 10 watt position report every 2 minutes.

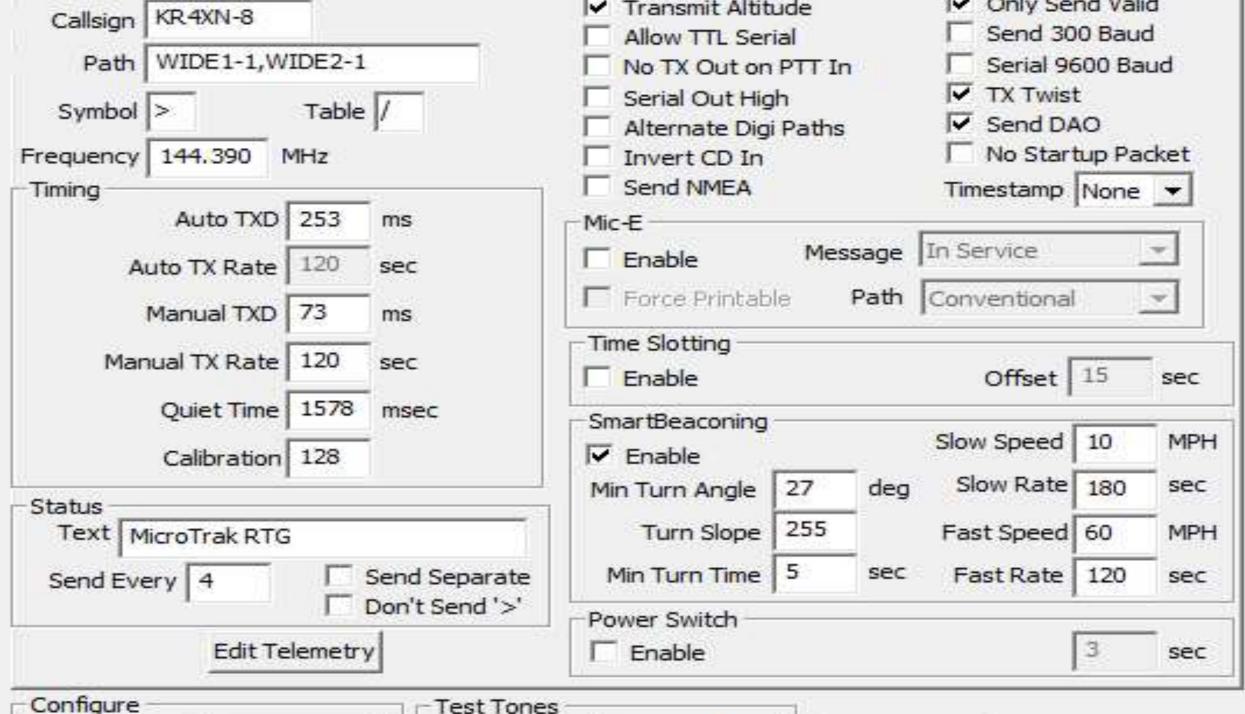
APRS Accessories



GPS Receivers

Our serial GPS receivers included with products above are also available for individual purchase. We have outdoor-safe versions, modules and cables to connect these to radios and computers.

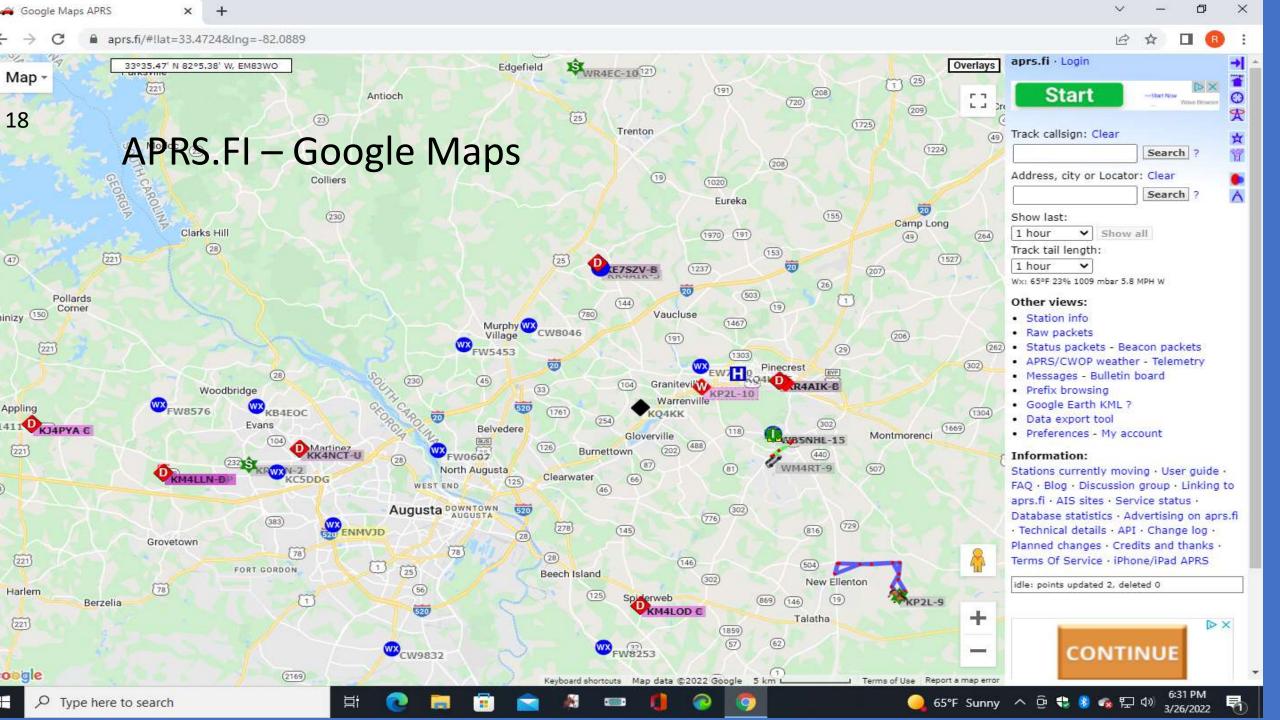


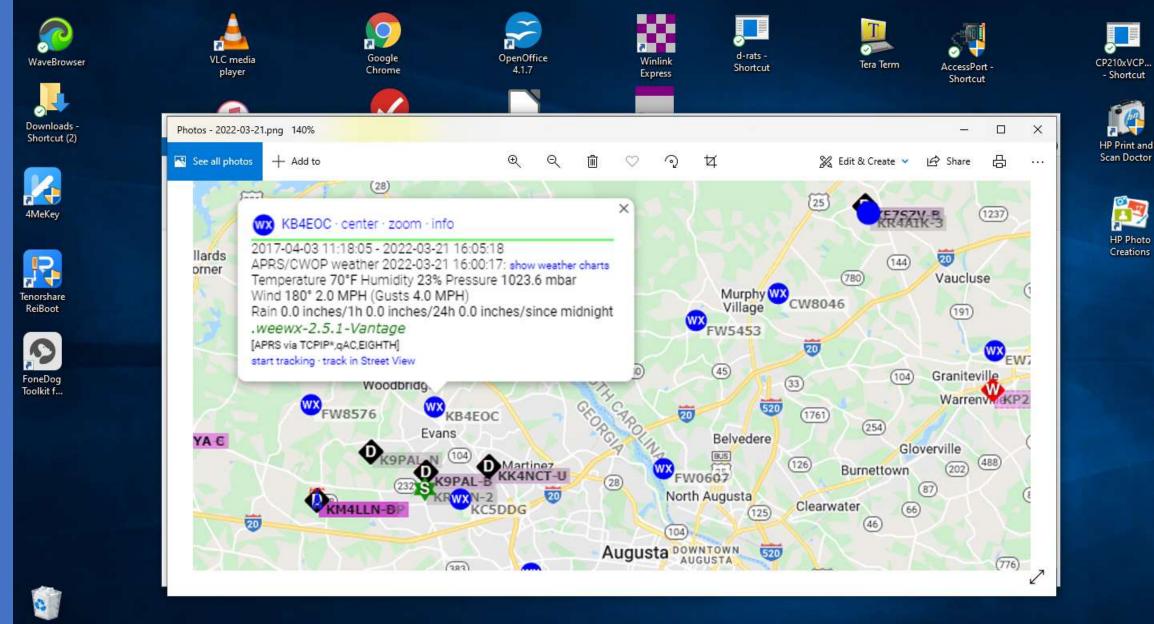


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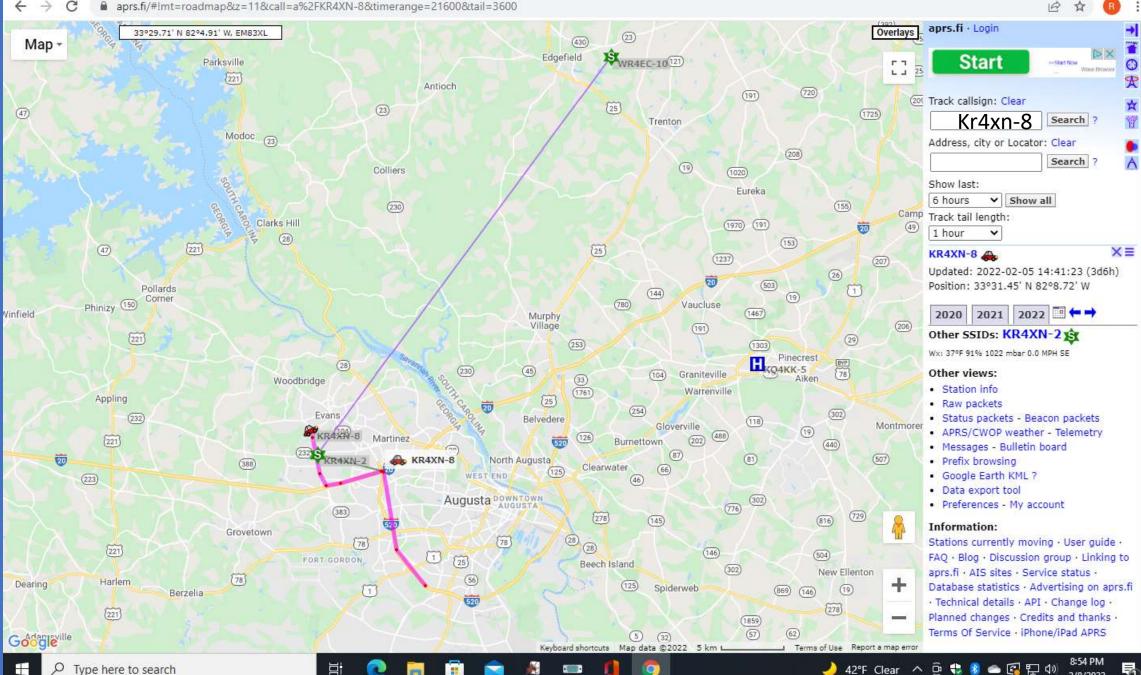
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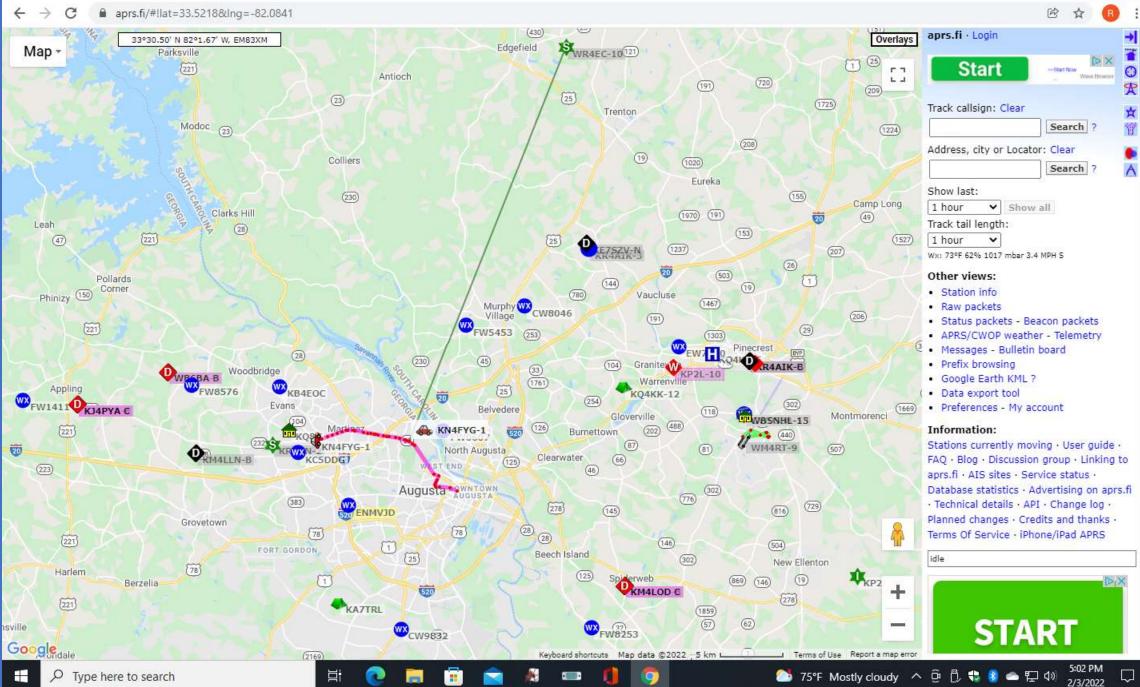
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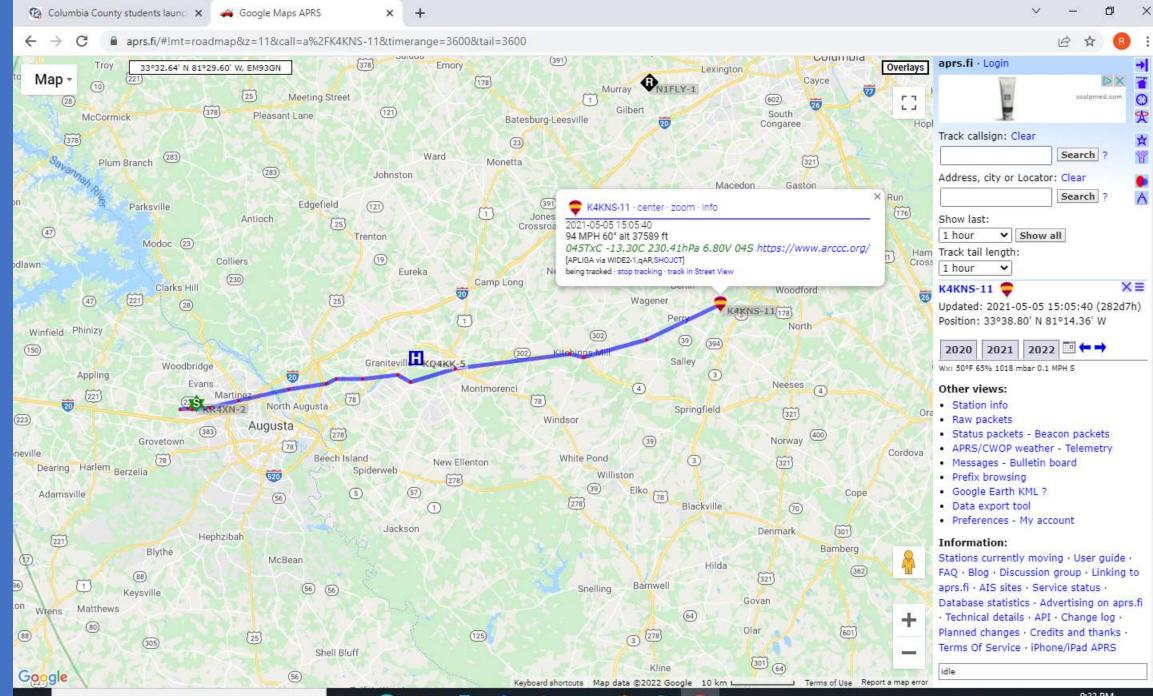












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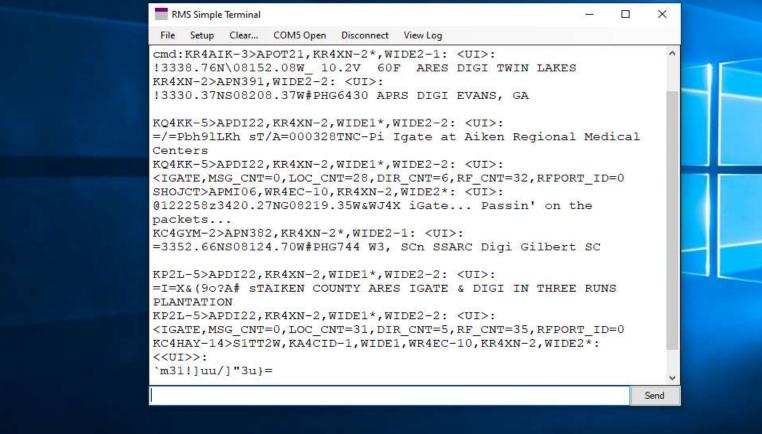
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Recycle Bin

Some References:

APRS Organization – www.aprs.org<u>www.aprs.org</u> APRS Protocol – http://www.aprs.org/doc/aprs101.PDF<u>www.aprs.org/doc</u> APRS Yahoo Group – https://groups.yahoo.com/neo/groups/APRS/info