

# Smartphone Apps for Amateur Radio / Ham Radio

Oakland Radio Communications Association ([ORCA](#))

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March 4, 2017



# Apps for...

- Operating and Listening
- CW / Morse Code
- Digital Modes
- Summits On The Air (SOTA)
- Tracking Satellites
- License Exam Study
- Information / Tools / Utilities
- Other useful stuff
- + Developers to follow
- + iOS app suggestions
- + Lists of apps
- + Q&A



# Caveats: incomplete list, mostly Android

This presentation lists apps that I have either tried myself, or have seen positive recommendations for. It is not an exhaustive review, just what I've come across so far, and I'm sure there are lots of other interesting and useful ham-related apps out there.

I will focus mostly on Android Apps, since that's what I use and know. Most apps have a version for iOS (iPhone/iPad) too, or another iOS app with similar functionality.

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Apps for...

# Operating and Listening

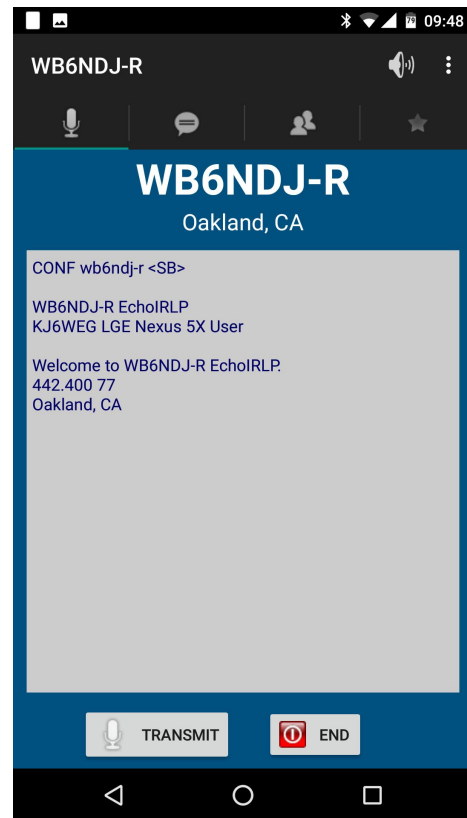
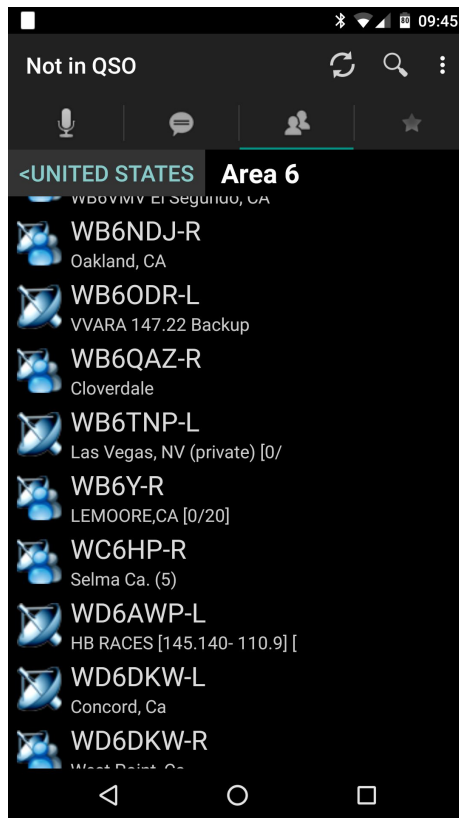


# EchoLink



- TX & RX via EchoLink system directly from phone or tablet (no RF required like with IRLP)
- Global list of nodes
- One connection at a time per node
- TIPS:
  - Tap once to start TX, tap again to stop (different from PTT)
  - On TX, pause before speaking

<https://play.google.com/store/apps/details?id=org.echolink.android>  
<https://itunes.apple.com/us/app/echolink/id350688562>  
<http://www.echolink.org>



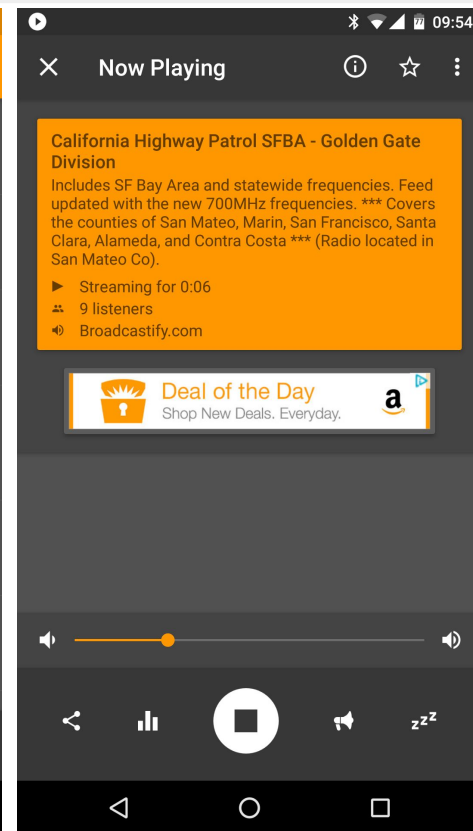
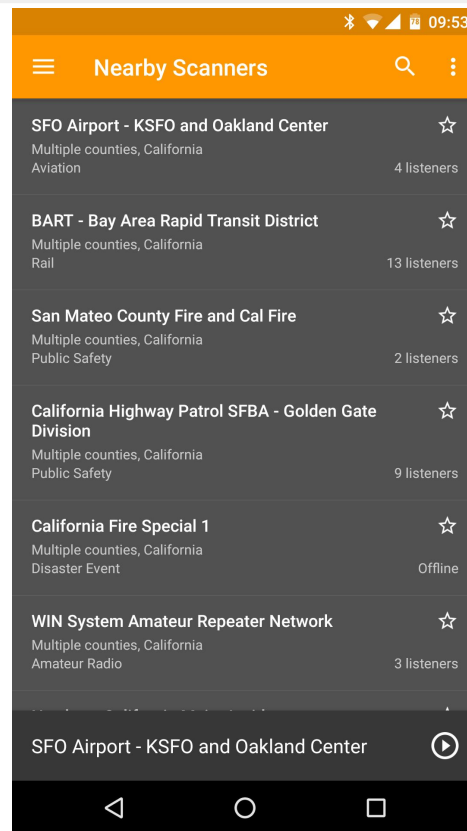


# Scanner Radio



- Listen to online streams
  - Police/Fire/Ambulance
  - Airports/ATC
  - Amateur Repeaters/Systems
  - etc.
- Thousands of streams available
- Many repeaters not online
- Nearby, Favorites, Listener Alerts

<https://play.google.com/store/apps/details?id=com.scannerradio>  
<https://itunes.apple.com/us/app/scanner-radio-deluxe/id498405045>  
<http://support.gordonedwards.net>



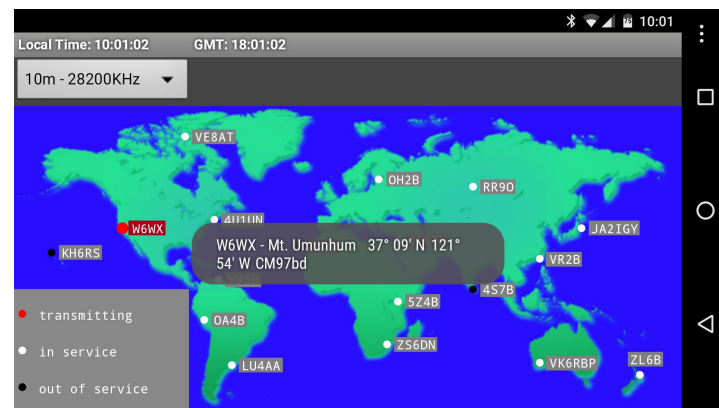
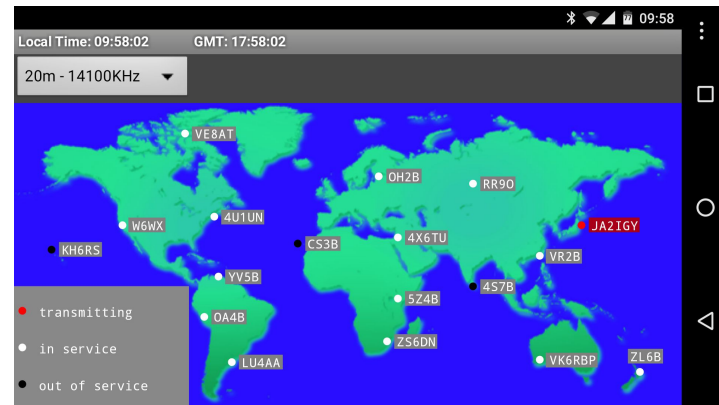


# NCDXF Beacon



- App provides realtime view of which beacon is currently transmitting
- NCDXF beacons transmit 10 seconds, rotating around the world
- Bands: 10,12,15,17,20m
- Similar iOS app: BeaconAid-HF

<https://play.google.com/store/apps/details?id=com.wolphi.clock>  
<https://itunes.apple.com/us/app/beaconaid-hf/id307460004>  
<http://www.ncdxf.org/beacon/beaconprograms.html>



# Rig-specific companion apps



## KX3 Companion

- Free trial (5 minutes), Full version currently \$6.99
- CW, PSK31 & RTTY: TX+RX w/ device keyboard
- Rig Control, Logging, QRZ.com, DXCluster



## 817 Companion

- Currently \$4.49
- Rig Control, Logging, QRZ.com, DXCluster
- Panadapter support with kit







# SDR Touch



- RX & demodulate (listen to) FM, AM, SSB, CW signals
- Requires compatible USB DVB-T tuner and USB-OTG cable
- Free version, \$9.99 Pro version adds additional features

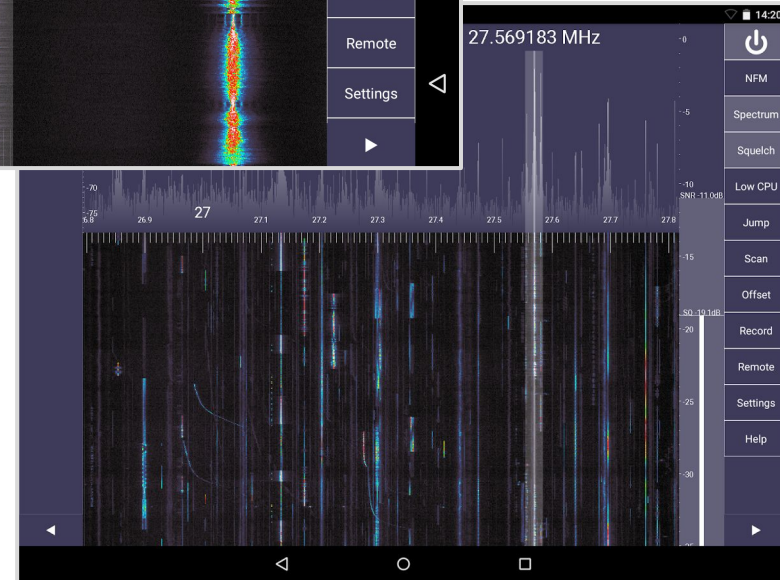
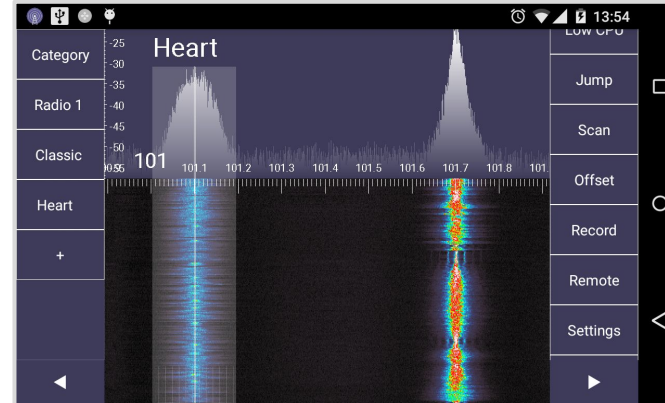
Several other SDR apps under development, including for iOS

<https://play.google.com/store/apps/details?id=marto.androsdr2>

<http://sdrtouch.com/>

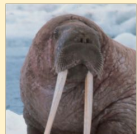
RTL2832U Driver: [https://play.google.com/store/apps/details?id=marto.rtl\\_tcp\\_andro](https://play.google.com/store/apps/details?id=marto.rtl_tcp_andro)

Pro version key: <https://play.google.com/store/apps/details?id=marto.androsdr.key>



Apps for...

**CW / Morse Code**



# Morse Code Reader



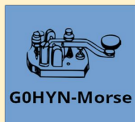
- Listens to device's mic or audio-in
- Detects and decodes dits & dahs
- Works ok with low noise
- Works poorly with ambient noise
- Works poorly with RX noise
- Listed here just because it was one of my first ham related apps

Android - numerous alternatives

iOS - numerous similar apps available

<https://play.google.com/store/apps/details?id=org.jfedor.morsecode>



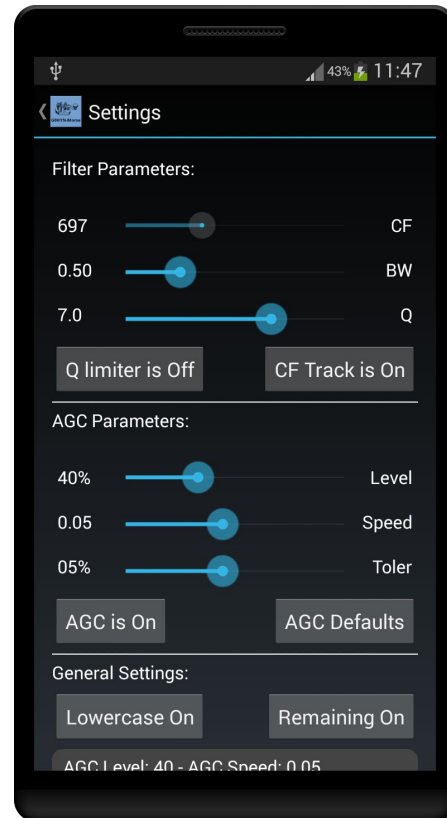


# RX Morse



- Decodes CW audio into plain text
- Input via mic or cable interface
- Free

<https://play.google.com/store/apps/details?id=com.g0hyn.myrecorder>  
<http://qsl.net/g0hyn/G0HYN-Reader/G0HYN-Reader.html>



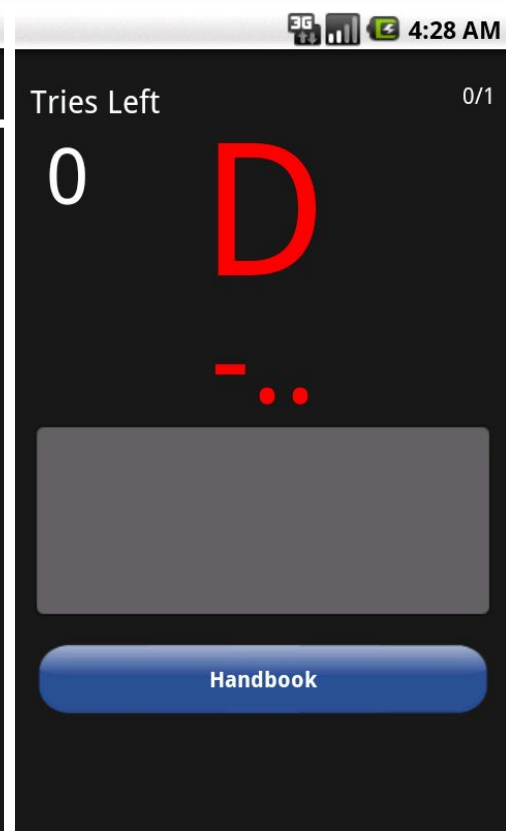
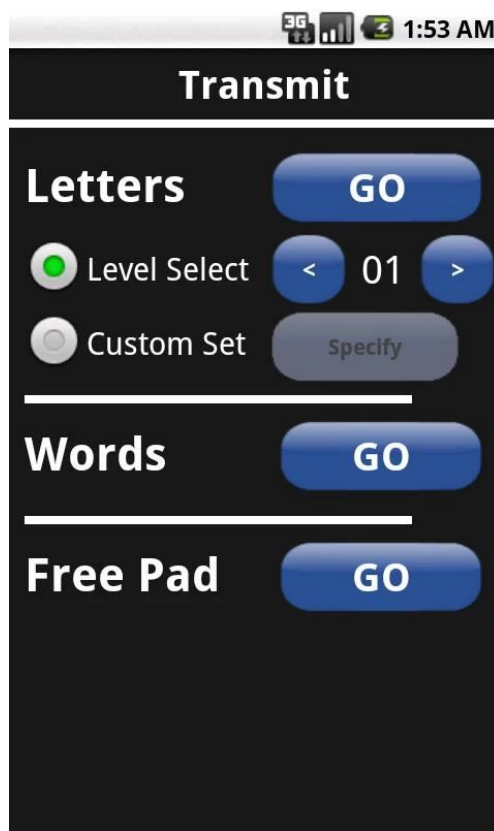


# Morse Code Trainer



- Basic morse code training
- Letter training - TX & RX modes
- Word training - TX only
- Adjust speed, tone, sound effects
- Free version & paid donation to remove ads (\$1.00)

<https://play.google.com/store/apps/details?id=hunt.morseDit>

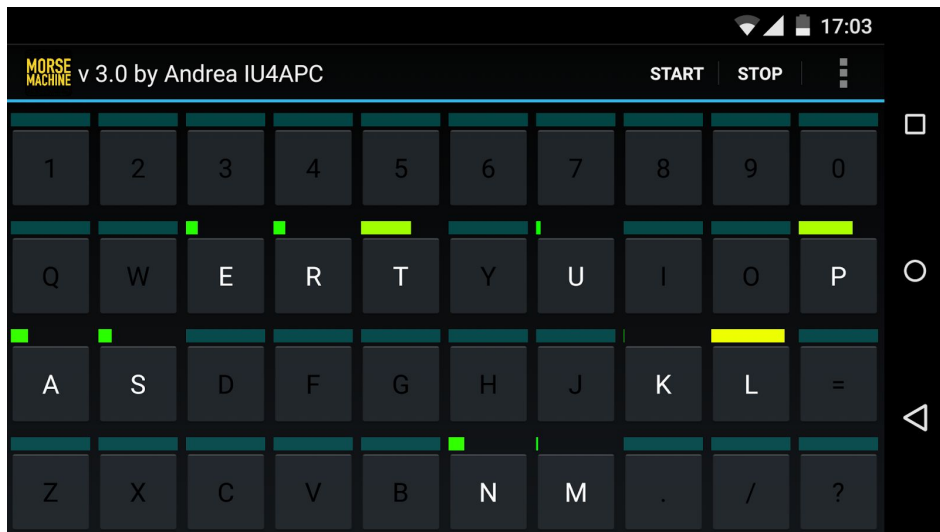




# Morse Machine



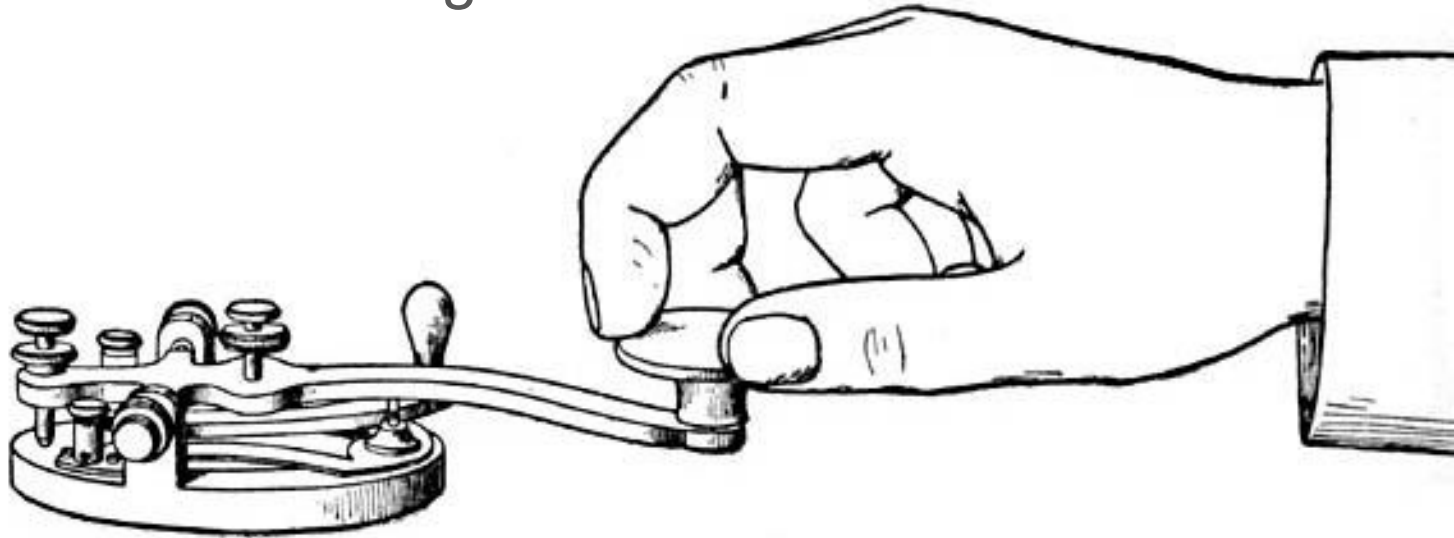
- Learn to receive CW
- A game-like experience
- Starts with two letters and adds more when it sees you're ready
- Adjusts to focus on what you need
- Most engaging CW training app that I've tried so far
- Well worth the low price (\$0.99)



<https://play.google.com/store/apps/details?id=com.iu4apc.morsemachine>  
<https://alphapapacharlie.com/2015/01/26/morse-machine/>

# Many more CW apps out there!

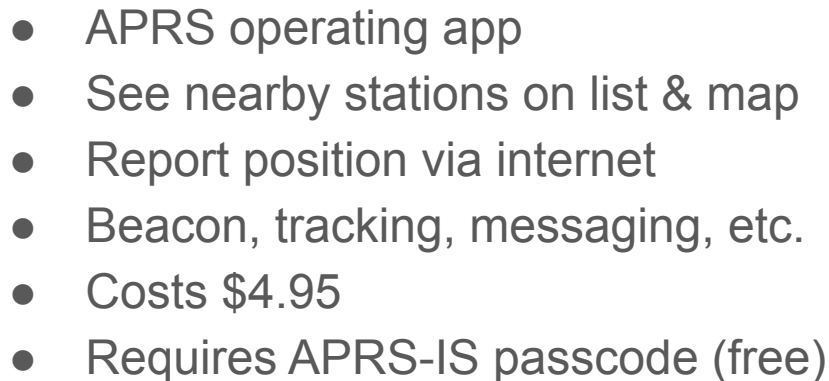
- All sorts of learning / training apps
- Better automatic readers/decoders (quality costs \$\$)
- Send & Receive CW via light!
- etc!



Apps for...

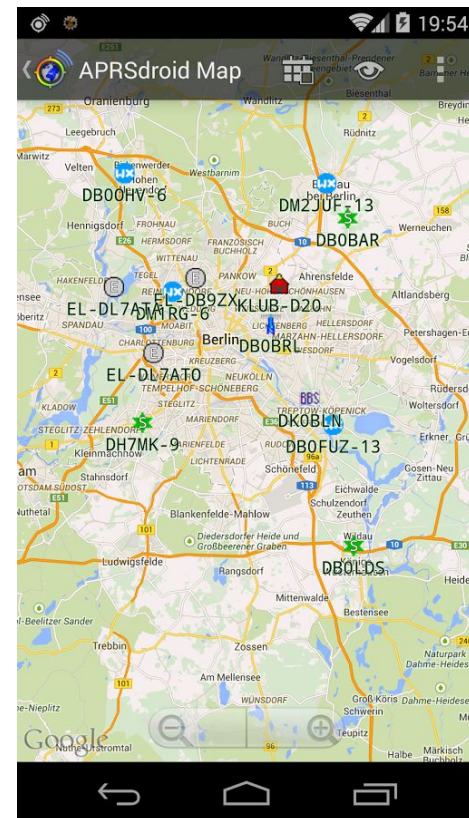
# Digital Modes





## Several iOS apps for APRS

<https://play.google.com/store/apps/details?id=org.aprsdroid.app>  
<https://aprsdroid.org/>





# Droid PSK



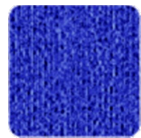
- Well reviewed app for PSK operation
- Connect via phone mic & speakers
- Decode & Encode
- BPSK31 & BPSK63
- Costs \$5.49
- I have not tried it yet

For iOS see [PSK31](#) app (\$2.99)

<https://play.google.com/store/apps/details?id=com.wolphi.psk31>  
<http://www.wolphi.com/ham-radio-apps/droidpsk/>



# Other Digital Modes



## MT63-2000

- Send & receive MT63-2000
- uses acoustic coupling to a radio



## APSK

- RX Decoding only, through mic



## DroidRTTY

- Decode & Encode RTTY
- uses phone mic & speakers, or wired connection
- Costs \$5.49, I have not tried it yet.



Apps for...

# Summits On The Air (SOTA)



# Summits On The Air Apps



## SOTAWatch (app)

<https://play.google.com/store/apps/details?id=com.e71dx.sotawatch>

## SOTAWatch Spotlite v2 (web app / bookmark)

<http://www.sota.org.uk/Spotlite>

## SOTAMaps (bookmark)

[www.sotamaps.org](http://www.sotamaps.org)

## SOTA Spotter (app)

<https://play.google.com/store/apps/details?id=ro.netroute.sotaspotter>

<http://www.sota.org.uk/>

Apps for...

# Tracking Satellites

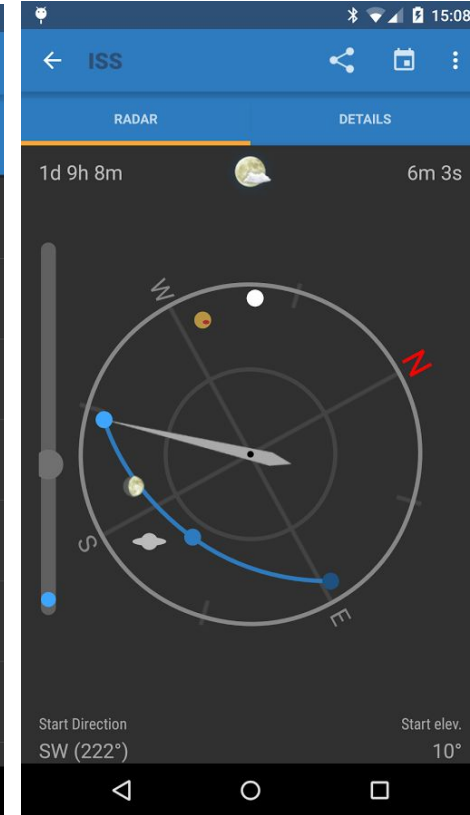
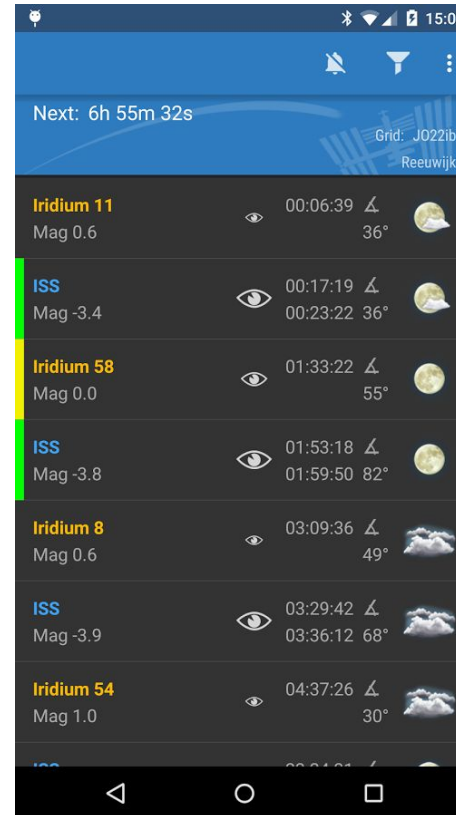


# ISS Detector



- Satellite Tracking
- List of upcoming passes
- Notifications / Alerts
- Precise timing
- Compass & Elevation view
- Free: ISS & Iridium (visible flares)
- Paid add-on datasets:
  - Comets & Planets
  - Amateur Radio satellites
  - Famous objects (Hubble, Chinese SS)

<https://play.google.com/store/apps/details?id=com.runar.issdetector>  
<http://www.issdetector.com/>

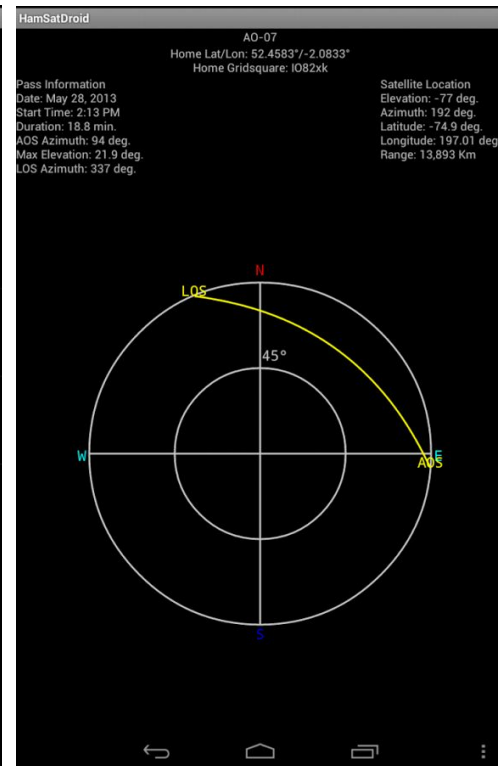
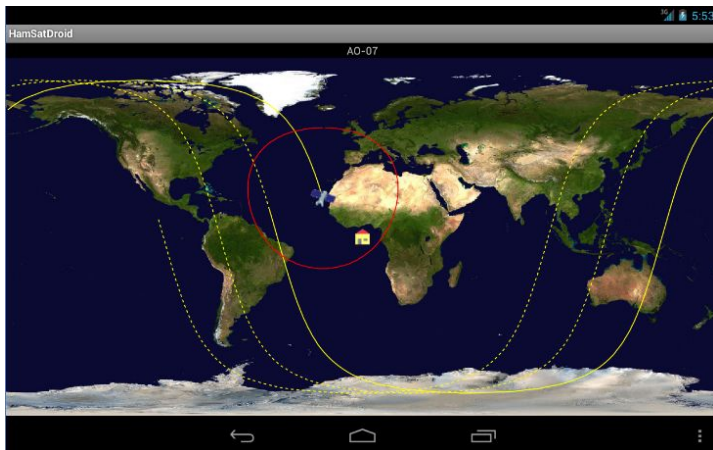




# AmsatDroid



- Free Ham Sat tracking
- Have to know beforehand which satellite you want



<https://play.google.com/store/apps/details?id=uk.me.g4dpz.HamSatDroid>  
<http://www.g4dpz.me.uk/>





[www.amsat.org/status/](http://www.amsat.org/status/) (bookmark)

FREE



- Great website for choosing amateur radio satellites
- Recent status & reports

|        | Transponder/Repeater active |  |  |  |  |  |  | Telemetry/Beacon only |  |  |  |   |  |  | No signal |  |   |  |  |  |  | Conflicting reports |  |   |  |  |  |  | ISS Crew (Voice) Active |  |  |  |  |  |  |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Name   | Mar 4                       |  |  |  |  |  |  | Mar 3                 |  |  |  |   |  |  | Mar 2     |  |   |  |  |  |  | Mar 1               |  |   |  |  |  |  | Feb 28                  |  |  |  |  |  |  | Feb 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Apps for...

**Information / Tools / Utilities**

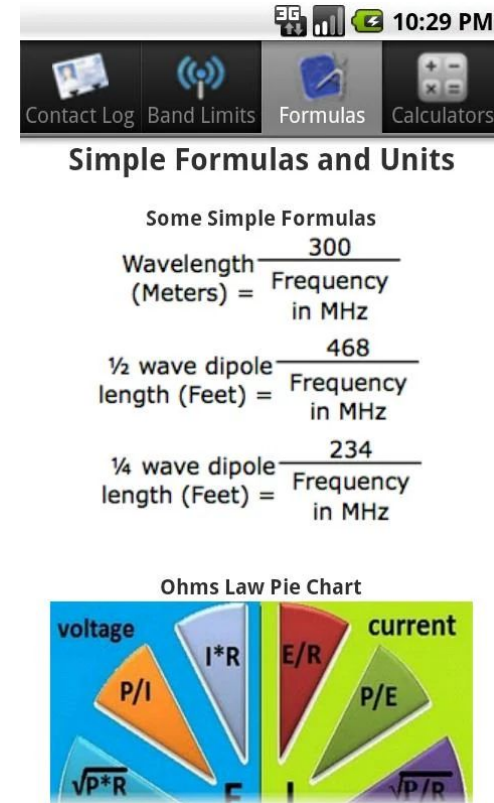
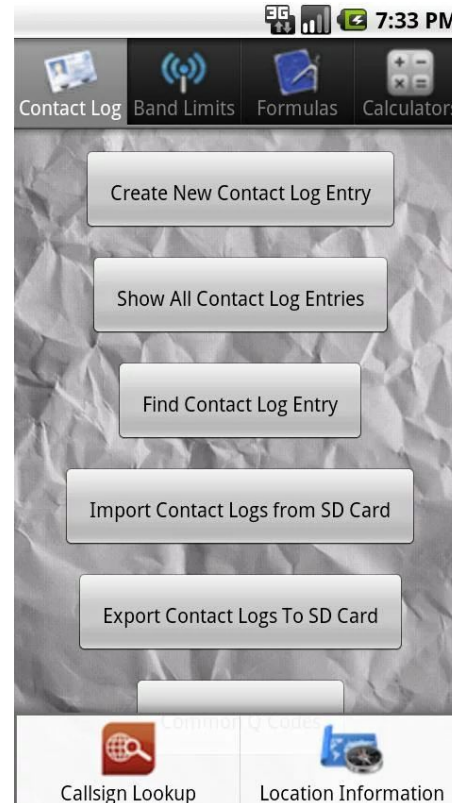


# Ham Radio Tools



- Includes a variety of tools...
- Contact Log
- Band Limits
- Common Formulas
- Antenna Calculators:
  - vertical, jpole, dipole, yagi
- Common Q Codes
- Callsign Search
- Location Info

<https://play.google.com/store/apps/details?id=chris.ham.radioTools>





# Ham



- Basic, open-source app
- Solar Conditions (from N0NBH, [www.hamqsl.com/solar.html](http://www.hamqsl.com/solar.html))
- Maidenhead Grid Locator
- Callsign Lookup (requires QRZ.com XML Subscription)

<https://play.google.com/store/apps/details?id=com.smerty.ham>  
<https://github.com/smerty>

Ham

Solar Terrestrial Data

Solar Flux: 99  
A-Index: 4  
K-Index: 2 / 18 nT  
X-Ray: B7.0  
Sun Spots: 54  
Proton Flux: 2.20e-01  
Electron Flux: 6.19e+02  
Aurora: 3 / n=1.43

Calculated Solar Conditions

| Bands    | Day  | Night |
|----------|------|-------|
| 80m-40m: | Fair | Good  |
| 30m-20m: | Good | Good  |
| 17m-15m: | Fair | Fair  |
| 12m-10m: | Poor | Poor  |

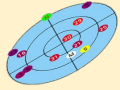
VHF Conditions

Aurora Band Closed

Ham

Grid: CM87xj

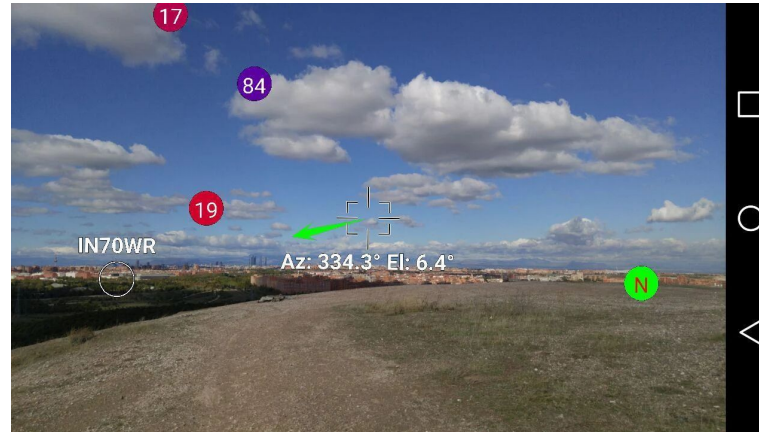
Latitude: 37.39405006  
Longitude: -122.08046936  
Wed Jul 27 23:37:48 PST 2011



# HamGPS

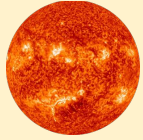


- Basic app with good location data:
- Grid Square (high accuracy, 10 digits)
- GPS System Time
- GPS Satellite Status
- Compass readout
- Device sensor data
- Augmented reality location viewer!



<https://play.google.com/store/apps/details?id=ea4eoz.HamGPS>  
<http://ea4eoz.blogspot.com/p/hamgps.html>





# Solar data & HF propagation



- “Solar Information” App
- Solar Data comes from N0NBH:  
[www.hamqsl.com/solar.html](http://www.hamqsl.com/solar.html)
- HF & VHF Propagation estimates

<https://play.google.com/store/apps/details?id=com.myHamAp.solarData>  
[www.hamqsl.com/solar.html](http://www.hamqsl.com/solar.html)

**Solar Information**

Credits N0NBH <http://www.hamqsl.com/solar.html>  
Mise à jour: 09 Jan 2013 2159 GMT  
SFI: 167 SN: 144  
A: 3 K: 1 / No Report  
X-RAY: C1.6  
304A: 172.5 @ SEM  
Proton Flux: 2.83e-01 Electron Flux: 8.61e+00  
Aurora: 6 / n = 0.76  
Mg: -2.8  
Vent solaire: 338.2  
Geomag: VR QUIET  
Bruit: S0-S1 FOF 2: 3.00

**Prédiction de propagation HF**

| Bande   | Jour | Nuit |
|---------|------|------|
| 80m-40m | Poor | Good |
| 30m-20m | Poor | Good |
| 17m-15m | Good | Good |
| 12m-10m | Good | Poor |

**Prédiction de propagation VHF**

|                     |             |
|---------------------|-------------|
| Aurora              | Band Closed |
| 6m ES Europe        | Band Closed |
| 4m ES Europe        | Band Closed |
| 2m ES Europe        | Band Closed |
| 2m ES North America | Band Closed |

Success! Now you are ready to travel through the App Galaxy.

**Google**

**Propagation HF**

| Bande   |      |      |
|---------|------|------|
| 80m-40m | Poor | Good |
| 30m-20m | Poor | Good |
| 17m-15m | Good | Good |
| 12m-10m | Good | Poor |



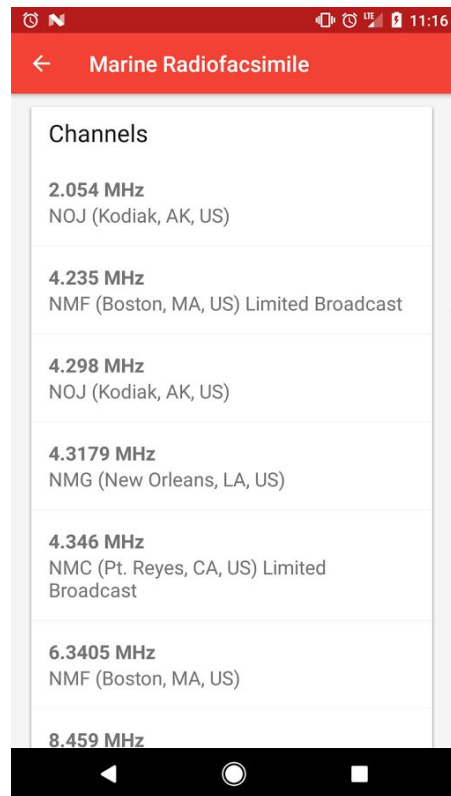
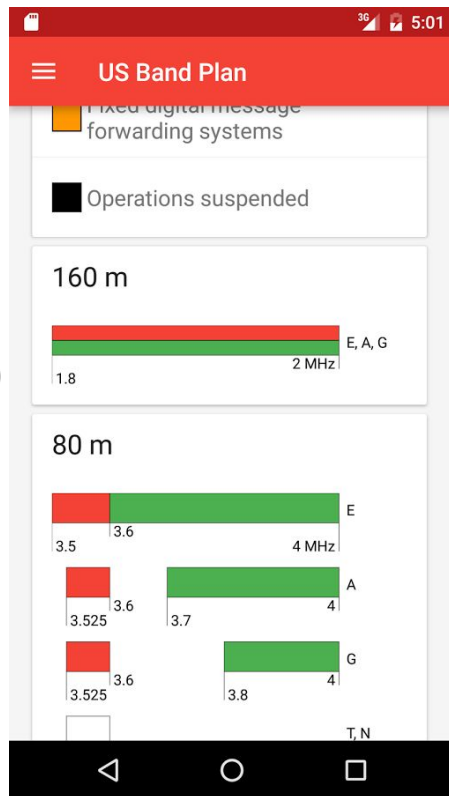


# Ham Bands



- US Amateur Radio Band Plan app
- US Band Plan diagrams
- Click for details & restrictions
- Filter by license class!
- Non-Ham bands (CB, FRS/GMRS, MURS, Marine, NIST, NOAA weather)
- Callsign Lookup (via hamdb.org)

<https://play.google.com/store/apps/details?id=com.kimbrelk.ham>



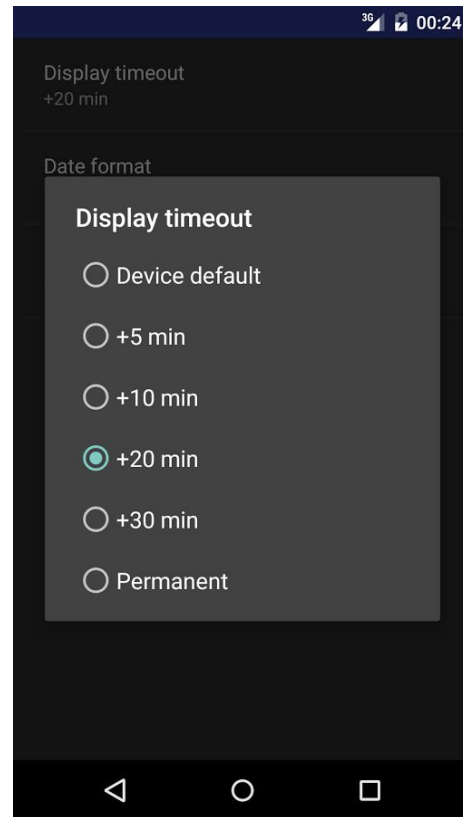
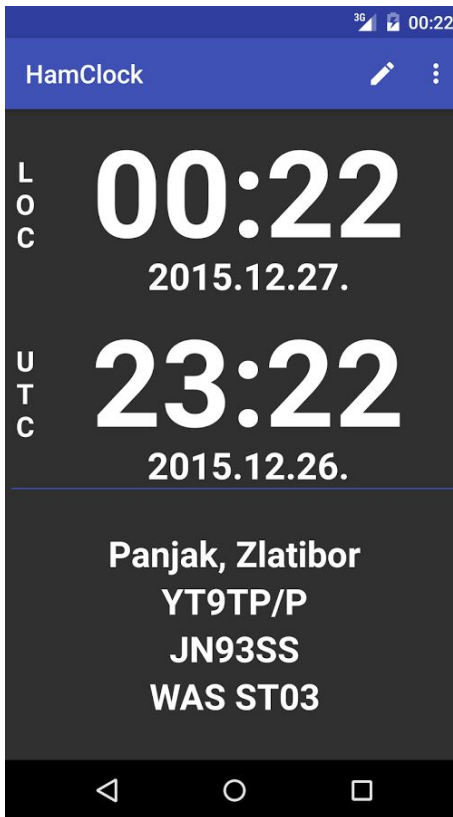


# HamClock



- Large display
- UTC & Local time
- Notes fields for operating reminders

<https://play.google.com/store/apps/details?id=cc.kostic.hamclock>





# QRZDroid



- Callsign lookup through QRZ.com
- No subscription required

iOS version: “[Callsign Search](#)”

<https://play.google.com/store/apps/details?id=com.qrz.database.callsign>  
<https://itunes.apple.com/us/app/callsign-search/id680180116>  
<https://www.qrz.com/>





# Pocket Prefix



- Live DX Cluster
- Callsign lookup
- Heading & Distance display

I haven't used this yet, but looks like a good cluster app

<https://play.google.com/store/apps/details?id=g4swy.prefixdecoder.lite>

Pocket Prefix

10 dxcc236 [Greece] EU cq20 itu28/1 (SV) 316th gmt+2 12:55

Greece (Evros, Rodhopi, Xanthi)

SV7

119° 2,430 Kms 1091tp

| UTC   | DX     | Freq     | DX Entity      | Spotter | Comment                      |
|-------|--------|----------|----------------|---------|------------------------------|
| 10:25 | 9K2MU  | 18,084.0 | Kuwait         | 9H1TX   | loud hny                     |
| 10:16 | RM17NY | 18,129.0 | Asiatic Russia | IZ1ZJS  |                              |
| 10:15 | RM17NY | 18,100.5 | Asiatic Russia | R7KRB   | bpsk125                      |
| 10:12 | VK4FNQ | 18,102.0 | Australia      | RA3S    | jt65 -7db                    |
| 10:11 | RM17NY | 18,100.5 | Asiatic Russia | R6WA    | bpsk 125                     |
| 10:09 | VK4FNQ | 18,102.0 | Australia      | G0HDB   | jt65, -6db                   |
| 09:58 | RM17NY | 18,105.5 | Asiatic Russia | EA6TH   | tnx 5/99 rty - 73 ! hny 201  |
| 09:53 | 7Z1HL  | 18,075.6 | Saudi Arabia   | EA6TH   | tnx 5/99 simplex - 73 saludo |
| 09:53 | VR2EH  | 18,073.0 | Hong Kong      | HA0IL   | tnx qso hny                  |
| 09:49 | 7Z1HL  | 18,075.6 | Saudi Arabia   | YO2AOB  | 599 +++ simplex              |
| 09:39 | VR2EH  | 18,073.1 | Hong Kong      | SP2EWQ  |                              |
| 09:36 | 9M2TO  | 18,068.9 | West Malaysia  | UR7EZ   |                              |
| 09:36 | 7Z1HL  | 18,075.6 | Saudi Arabia   | ON4PQ   | hny strong                   |

Powered by DXLite from G7VJR

17 - EU 10:28 1hrs

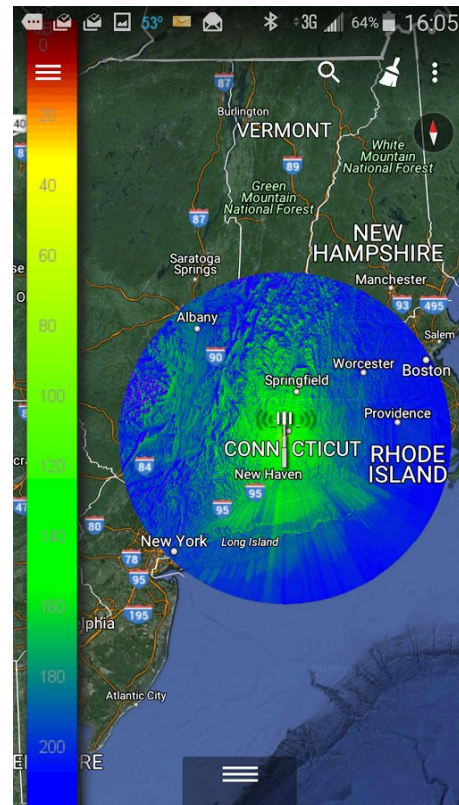
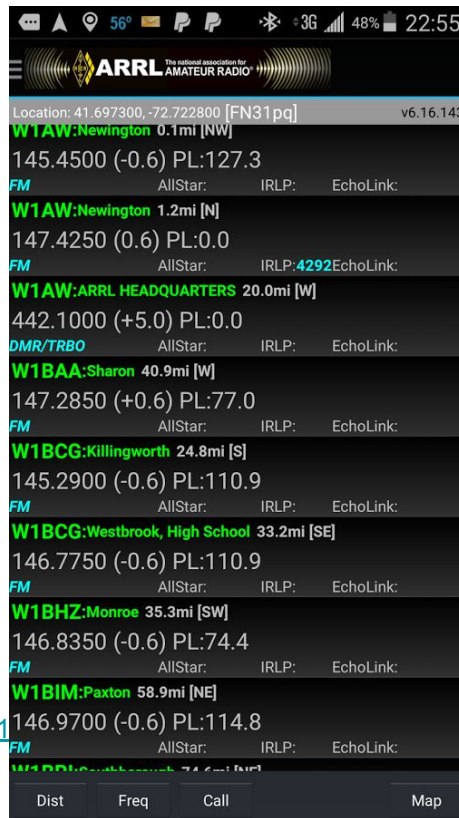


# RFinder



- Nearby Repeater List
- EchoLink Nodes
- Callsign Lookup
- Repeater maps w/ coverage
- Repeater info update tool
- Recently ARRL affiliated
- App is free, BUT...
- WWRD Subscription required \$\$

<https://play.google.com/store/apps/details?id=com.w2cyk.android.rfinder>  
<https://itunes.apple.com/us/app/rfinder-world-wide-repeater-directory/id50536451>  
<http://www.rfinder.net/blog/>



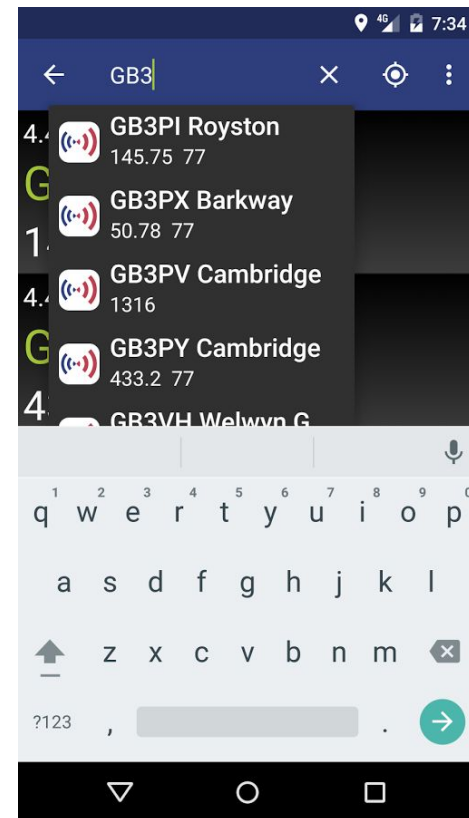
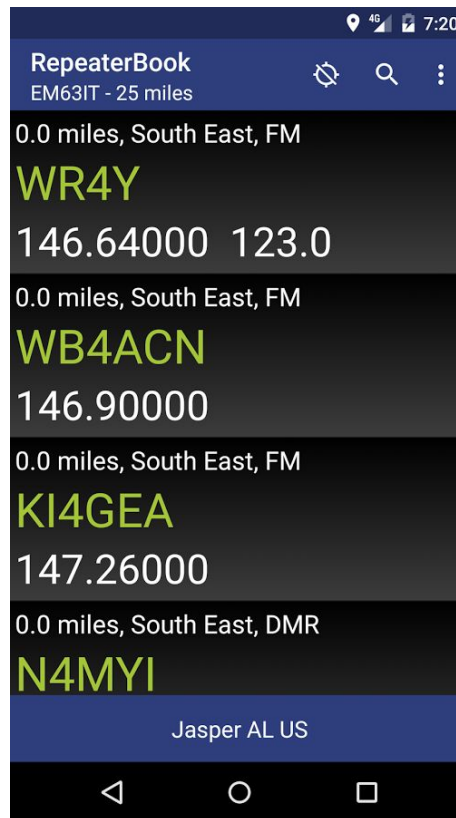


# RepeaterBook



- Nearby Repeaters List
- Uses Open-Source repeater directory
- BlueCat support (bluetooth CAT control - top repeater to tune)

<https://play.google.com/store/apps/details?id=com.zbm2.repeaterbook>  
<http://itunes.apple.com/us/artist/zbm2-software/id606820189>  
<http://www.zbm2.com/>



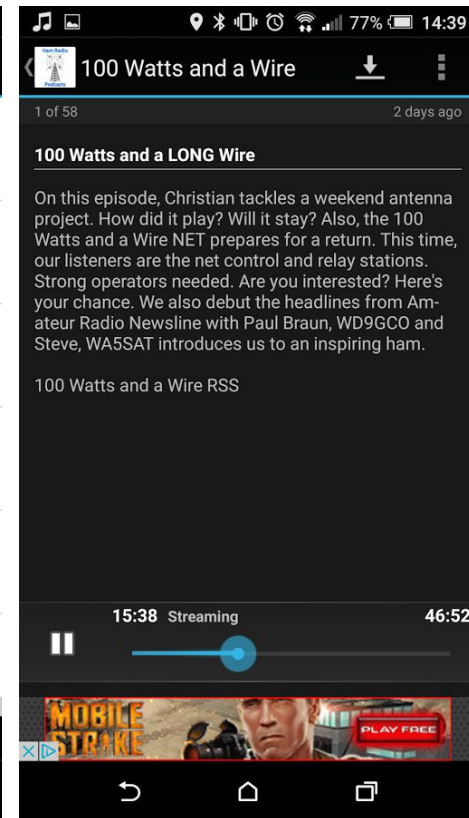
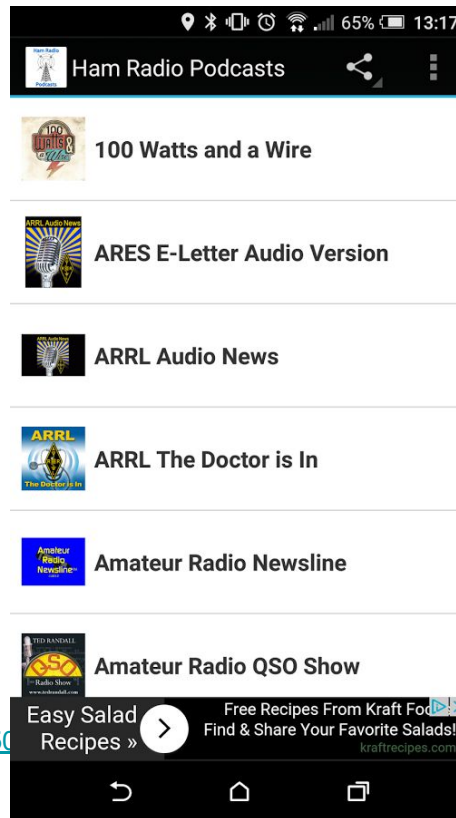




# Ham Radio Podcasts Free



- Ham Radio specific Podcast Player
- Free and paid versions (\$3.99)



<https://play.google.com/store/apps/details?id=com.andromo.dev5592.app50>  
<http://www.holyoak.com/>

**Other useful stuff...**

(non-ham-specific apps)





# GPS Status & Toolbox



- Best GPS app I've found
- Satellite status
- Location & Time
- View all phone sensor data
- Save locations / set waypoints
- Navigate to waypoints

Free version, Pro cost \$3.73

<https://play.google.com/store/apps/details?id=com.eclipsim.gpsstatus2>  
<https://mobiwia.com/gpsstatus>

All sensor data at a glance



Navigate with ease



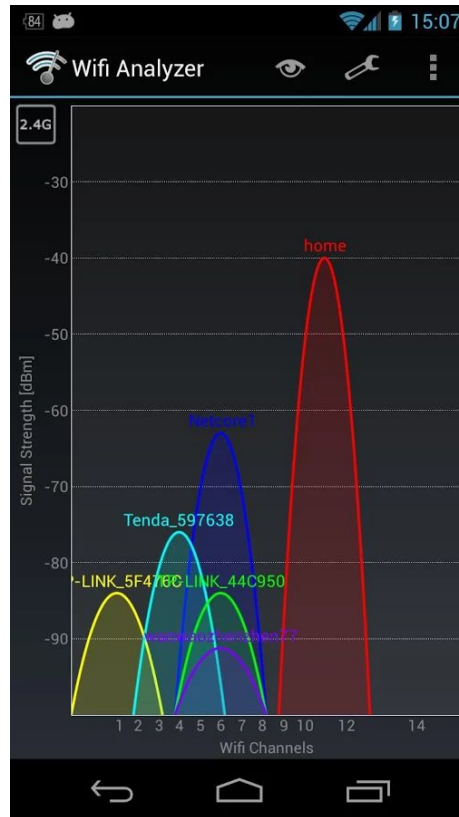


# Wifi Analyzer



- View WiFi access points / hotspots
- View frequency usage
- 2.4GHz and 5GHz bands
- Choose open frequencies for your hotspot
- Get details on APs/hotspots

<https://play.google.com/store/apps/details?id=com.farproc.wifi.analyzer>  
<http://a.farproc.com/wifi-analyzer>





# Sound Analyser

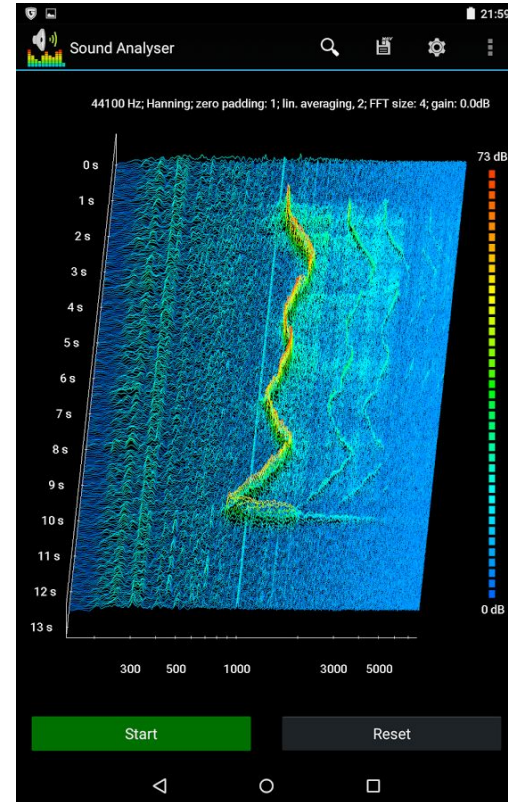
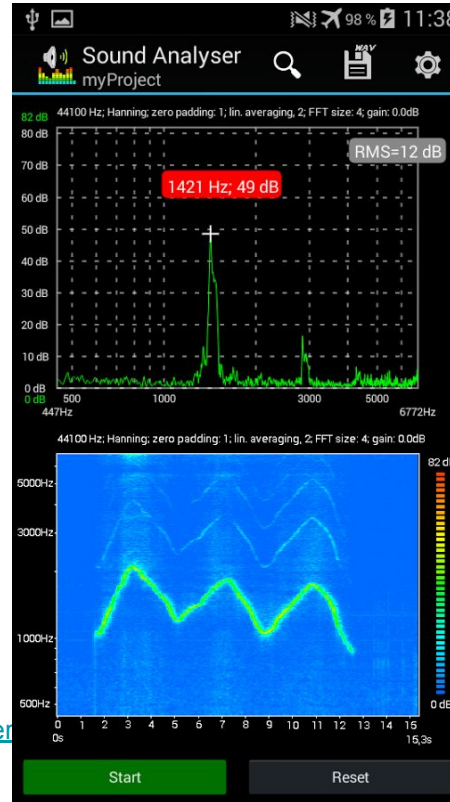
FREE

GET IT ON  
Google Play

- Easily view audio spectrum
- Variety of visualizations

Similar apps available for iOS

<https://play.google.com/store/apps/details?id=com.zephyr.soundAnalyser>





# Electro Droid

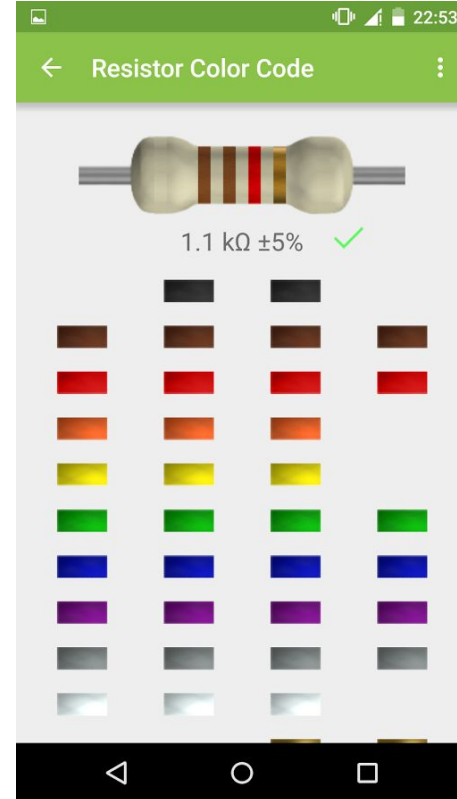
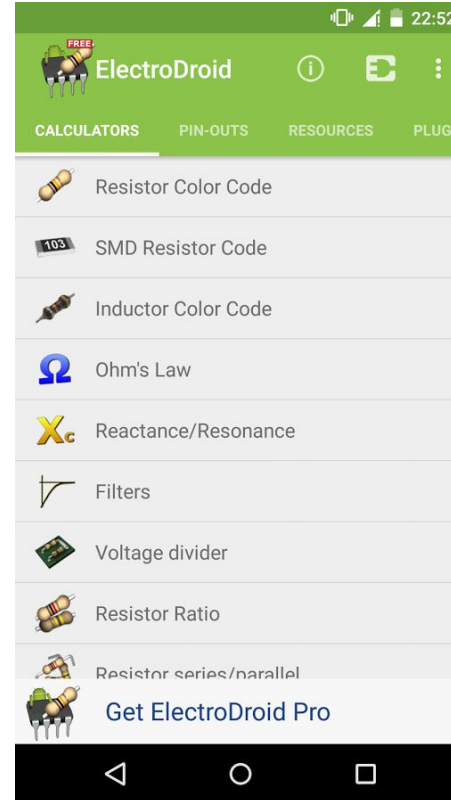


- Electronics info & tools
- LOTS of info options!

Free & Pro versions

iOS versions available

<https://play.google.com/store/apps/details?id=it.android.demi.elettronica>  
<https://itunes.apple.com/us/app/electrodroid-pro/id1146647134>  
<http://electrodroid.it/>



Almost done...

# Apps I paid for (so far)

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| APRSdroid (APRS client)                                              | \$ 4.95        |
| Morse Machine for Ham Radio (learn CW)                               | \$ 0.99        |
| ISS Detector - Extension Combo Pack<br>(satellite tracking datasets) | \$ 2.49        |
| GPS Status - PRO key (no ads)                                        | \$ 3.73        |
| <b>Total:</b>                                                        | <b>\$12.16</b> |

A lot cheaper than the HTC RFinder \$749.00 ;- ) ==>>  
(smartphone/HT combos are starting to appear!!)



# Android Developers to Watch



These devs both build numerous good quality Ham apps, though most cost \$\$.

## Wolphi

**Play store:** [play.google.com/store/apps/developer?id=Wolphi+LLC](https://play.google.com/store/apps/developer?id=Wolphi+LLC)

**Website:** <http://www.wolphi.com/ham-radio-apps/>

## Andrea Salvatore IU4APC

**Play store:** [play.google.com/store/apps/developer?id=Andrea+Salvatore+IU4APC](https://play.google.com/store/apps/developer?id=Andrea+Salvatore+IU4APC)

**Website:** <https://alphapapacharlie.com>

# iOS apps suggested by fellow club members



These are apps that club members said they use (or have seen) for iOS. Some are duplicates of those listed above. I have not verified any of these myself.



EchoLink ([app store link](#))



Repeater Book ([app store link](#))



Callsign Search by QRZ ([app store link](#))



CommCat Mobile ([app store link](#))



DX Toolbox ([app store link](#))



Ham Radio Decoder Bundle ([app store link](#))

more on next page...



# More suggested iOS apps...



Amateur Radio Exam Prep: Extra ([app store link](#))



SSTV Slow Scan TV ([app store link](#))



Ham Sphere ([app store link](#))



Ham I Am ([app store link](#))



Q Codes Reference ([app store link](#))



Scanner Radio Deluxe ([app store link](#))



Smart SDR (for Flex Radio) ([app store link](#))



WSPR Watch ([app store link](#))



Remote Ham Radio ([app store link](#))

# A List of Lists of more apps



A few lists I found... can't really vouch for any of them.  
Some are Android only, some iOS only, some both:

- The SWLing Post - The Best Amateur Radio and Shortwave apps for iOS and Android Smart Phones (Dec 2016) ([link](#))
- DX Zone - Software: Android ([link](#))
- G0HWC - The Android Ham radio apps ([link](#))
- KC0OIO / W0GAF presentation ([pdf download](#))
- DX Zone - Remote your radio article ([link](#))
- The KØNR Radio Site - iPhone apps list (2014): ([link](#))
- SCRA - Smartphone Apps: ([link](#))

Thank you!

Ideas?      Questions?

73 KJ6WEG