

# There's an App for That

Apps for oh, so many parts of your Amateur Radio experience

# KA7JEV

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# Ham Radio Enthusiast



# **Emergency Communications**



#### SWLing.com

http://swling.com/blog/2014/01/th e-best-amateur-radio-andshortwave-apps-for-ios-andandroid-smart-phones/

Giving credit where credit is due.

Originally posted in 2014, last updated Dec of 2016.



#### The Best Amateur Radio and Shortwave Apps for iOS, Android and Windows smart phones

Posted by Thomas





#### What is an App?

Just in case there are people in here who are unfamiliar with smart devices and apps, an "app" is an application, or special feature, designed for modern electronic devices like "Smart" cell phones and Tablets. Some of these apps are preloaded on your device, others are available in the App Store appropriate for your device.

Basic apps include "Phone", "camera", "calculator", "email", and "messaging". Today, I will be featuring some special, not-so-basic apps.

### Using Google, Apple (iOS), or Windows Play Store

Click on the App Store Icon

Type in the name of the app, or "Ham Radio", or "Amateur Radio".

All three stores work similarly.





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TOP CHARTS	BOOKS GAMES CATE		Ham Test Prep iversoft.com 4.5 *	FREE
Health & Fitness	MO	DRE	US Amateur Radio Band Plan Karson Kimbrel 4.7 *	•
MyKeto	9 😲		EchoLink Synergenics, LLC	FREE
MyKeto -Sleepo:Low CarbRelaxing3.9 *FREE4.8 *	REE 4.7★ FREE	Snor Reco 4.3 *	4.4* B	► INSTALLED
Lifestyle Apps	мо	ORE QRZ	QRZ.COM	• ► INSTALLED
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Diary - Planter - Mood Garden	Total Connect	Fordi Park,	Ham Radio Tools Talixa Software & Service, LLC	:
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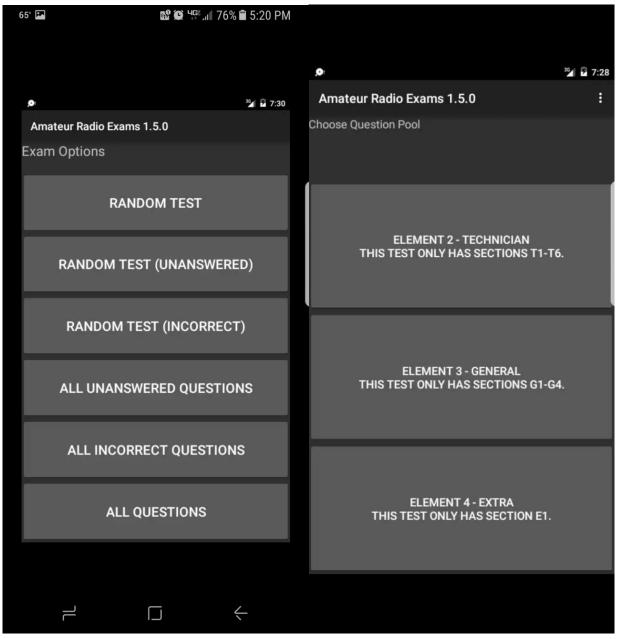
#### Amateur Radio Exams Pro (\$2.99) Android

- Includes all three Question Pools with Lifetime Updates
- Keeps track of answered/unanswered questions
- Keeps track of correct/incorrect answers
- Allows random or ordered question order
  PRO

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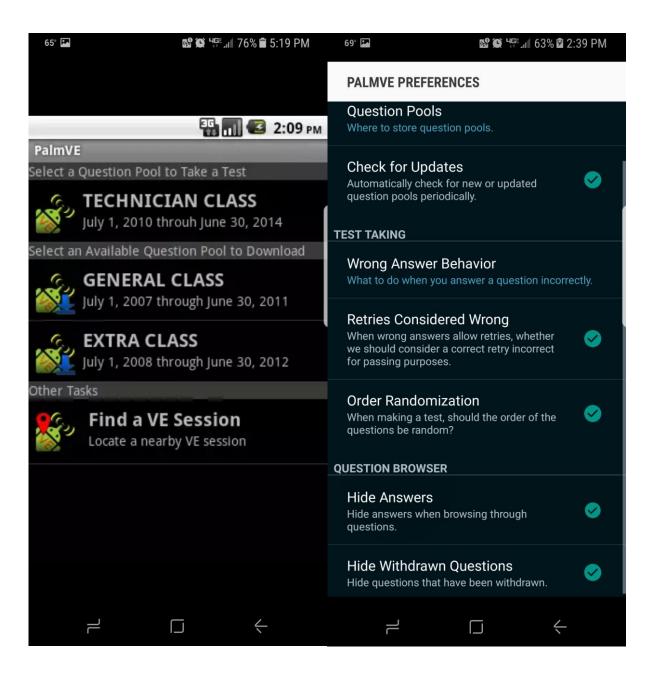
#### Amateur Radio Exams (Free) Android

- Contains limited elements for all three question pools
- Has the same features as the Proversion, just with limited elements



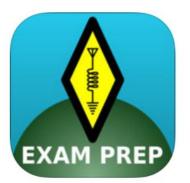
### PalmVE (Free) Android

- Track test history
- Search question pools
- Display figure images
- Find Volunteer Examinations nearby



#### Amateur Radio Exam Prep (\$4.99 per exam) iOS

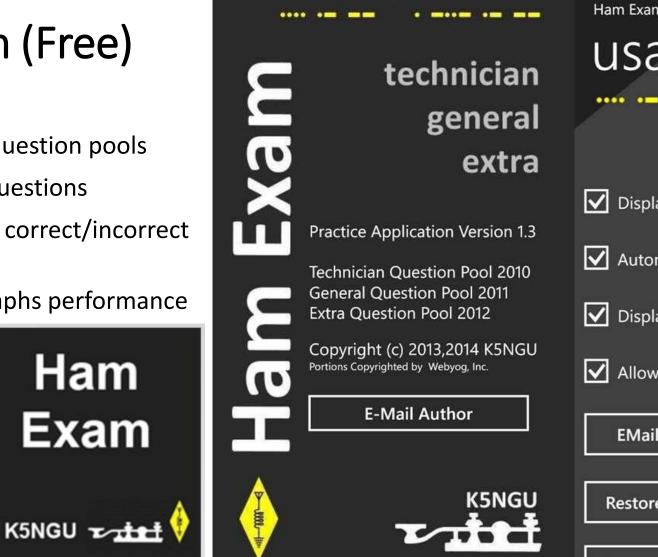
- Keeps track of correct/incorrect • questions
- Adaptive •
- There is a free version with • limited elements



Carrier 穼	12:27 AM	-	Carrier 穼	12:32 AM	-		
Amat	teur Radio Exam Prep		K Back	<b>Question Review</b>			
TECHNICIAN	CLASS (ELEMENT 2)		repeater; si DTMF; tone	perating practices: SSB phone; FM mplex; splits and shifts; CTCSS; squelch; carrier squelch; phonetics; problem resolution; Q signals	>		
<b>Review Question Pool</b>		>	Group T2C: Test Proficiency: 100.0% Public service: emergency and non-emergency operations; applicability of FCC rules; RACES				
Practice Q	uestion Pool	>	and ARES; i	net and traffic procedures; restrictions			
FCC Rules & Regulations		>	Subelemer	nt T2 Test Proficiency: 100.0%			
PRACTICE TE	STS			ENT T3: VE CHARACTERISTICS: PROPERTI WAVES; PROPAGATION MODES	ES		
New Test		>	travels; fadi	: Test Proficiency: 0.0% characteristics: how a radio signal ing; multipath; wavelength vs. ; antenna orientation	>		
Test Histor	гу	>	Group T3B: Test Proficiency: 100.0% Radio and electromagnetic wave properties: th				
Settings	Settings >		frequency;	netic spectrum; wavelength vs. velocity of electromagnetic waves; wavelength	/		
INFORMATIO	Ν		meteor and	: Test Proficiency: 0.0% n modes: line of sight; sporadic E; auroral scatter and reflections; ic ducting; F layer skip; radio horizon	>		
About App	lication	>	Subelemer	nt T3 Test Proficiency: 33.3%			
			SUBELEME	ENT T4:			

### Ham Exam (Free) Windows

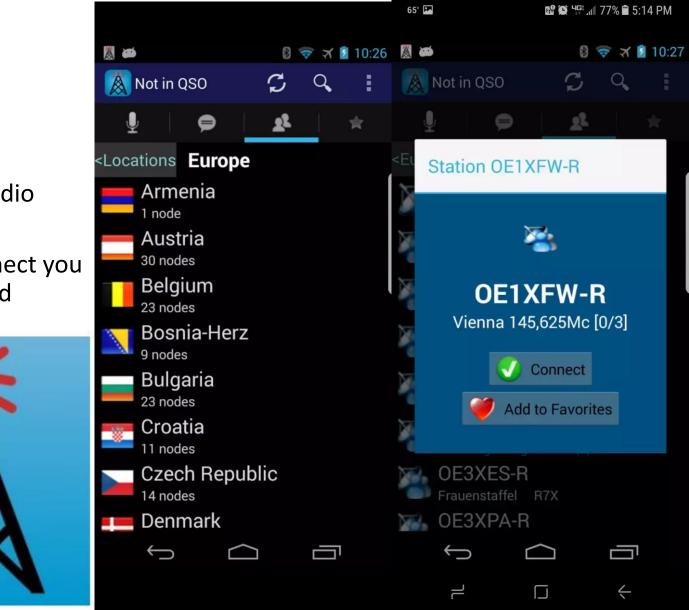
- Has all three question pools ۲
- **Randomizes** questions ٠
- Keeps track of correct/incorrect • answers
- Scores and graphs performance •



広力 9:29 Ham Exam usage options .... ✓ Display Correct Answer when Wrong Automatically advance on answer ✓ Display Exam Performance Allow Cloud Connectivity **EMail Error Report Restore Exam History** 

### EchoLink (Free) Android/iOS

- This app is for licensed radio operators only
- Uses the internet to connect you to Hams around the world



### Repeater Book (Free) Android/iOS

Uses phones GPS to find nearby repeaters

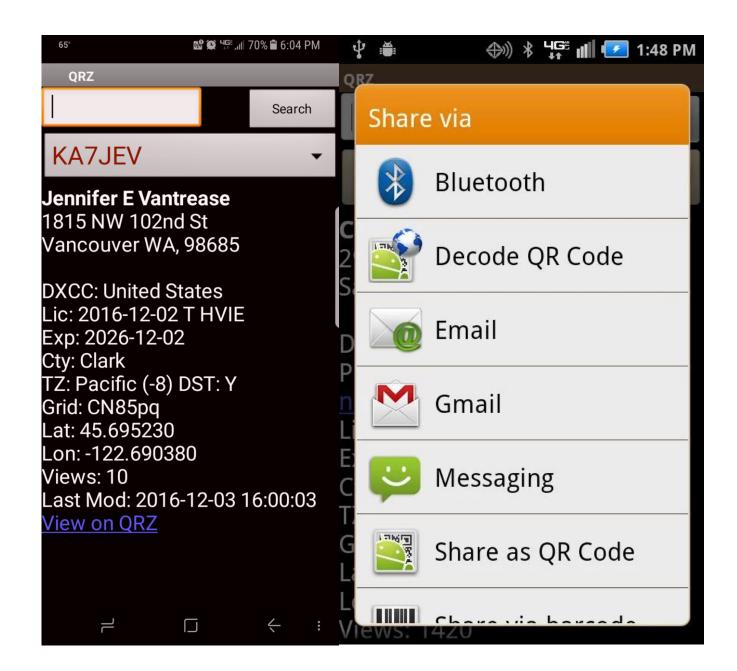
- Any band
- Any mode
- Anywhere

Q 4 <b>2</b> 7:2	46 <b>4 7</b> :22		
RepeaterBook& QEM63IT - 25 miles	3	← Settings	
0.0 miles, South East, FM		DISPLAY	
WR4Y		Dashboard Design	
146.64000 123.0			
0.0 miles, South East, FM	1	Keep Dashboard On	
WB4ACN		UNITS & SORTING	
146.90000	ļ	Max Distance	
0.0 miles, South East, FM		Miles or Kilometres	
KI4GEA		Miles	
147.26000		Sort By Distance	
0.0 miles, South East, DMR		BLUECAT CONFIGURATION	
N4MYI		Radio	
Jasper AL US		Yaesu FT8x7	
		⊲ 0	

### QRZ Callsign Search (Free) Android/iOS

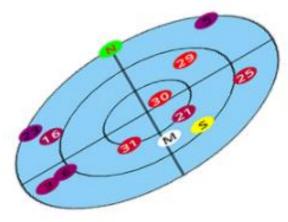
- Companion app for QRZ.com
- Search call signs anywhere
- Share call signs easily

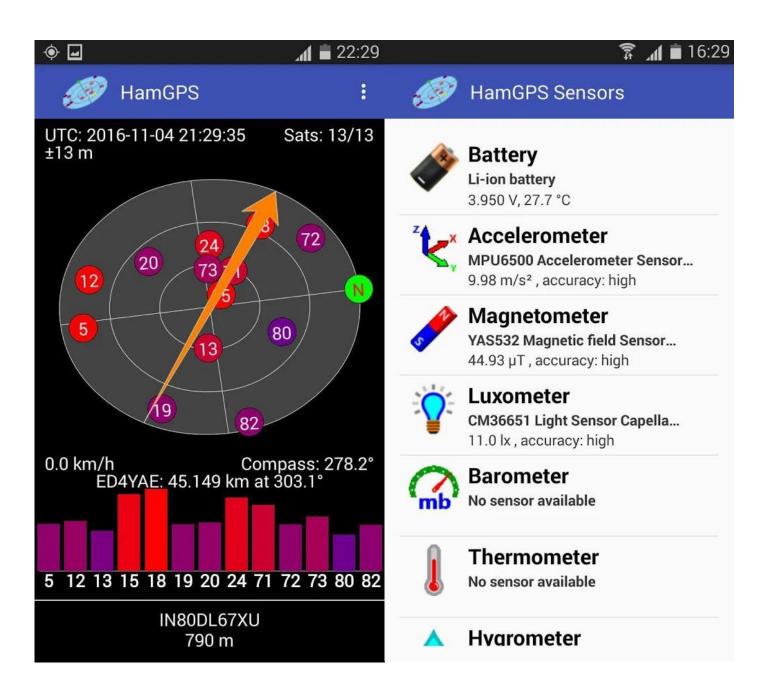




#### HamGPS (Free) Android

- Display your current Maidenhead location with 10 digit precision
- Compute bearing and distance
- Align antennas

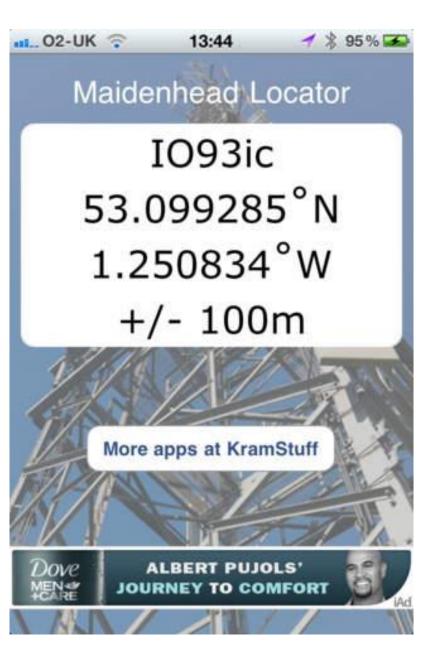




#### Ham Square (Free) iOS

 Displays current maidenhead location

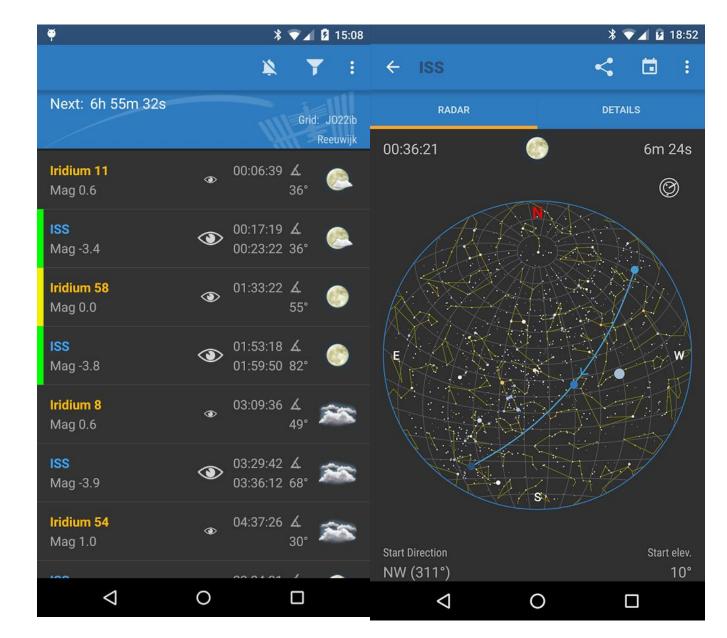




#### ISS Detector (Free) Android

- Know when and where to look for the International Space Station and iridium flares
- In-app purchases allow tracking of Ham Radio Satellites, Planets, Comets, and famous objects like Hubble

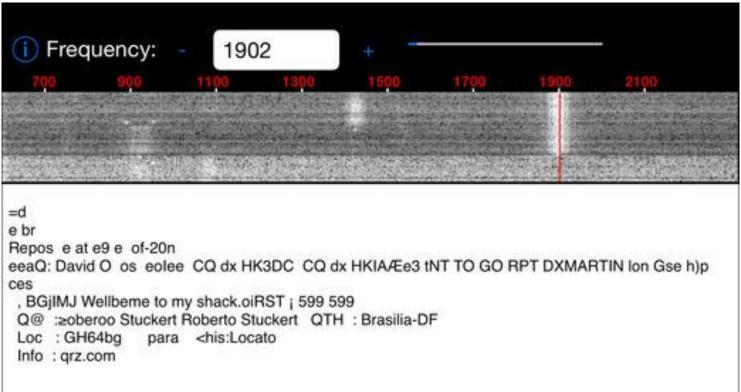




### PSK31 (\$2.99) iOS

 Decodes PSK31 signal on the fly as long as the phone microphone is near the radio speaker





Hov do yo o cepy? BTU BG6IMK BG6IMK de PT2GTI pse kn u e.sssee, a att Ao(e en fi

#### Droid PSK (\$5.49) Android

- Decodes and encodes PSK31 signal
- Version 2.0 includes logbook



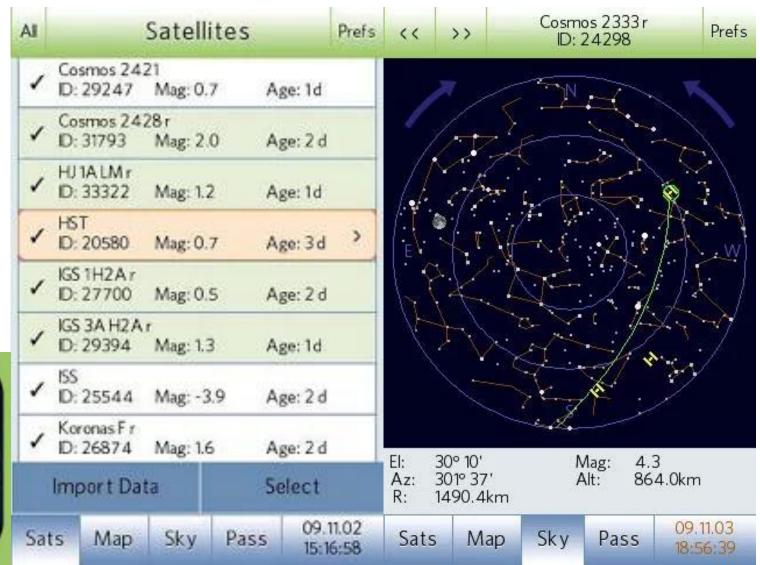


### PocketSat3 (\$24.99) Android/iOS

- Free DEMO Version is PocketSat3 LE to review software before purchase
- Predict when and where to see satellites







#### WSPR Watch (\$Free) iOS

- Shows reported beacon spots on a list, on a map, and makes graphs
- Shows who can hear you



Carrier 🗢	1:34 PM	-	Carrier 🗢		1:34 PM	-
	WSPR Watch				-10	
	02:34 UTC		SIA /			
Dec 28 02:30	- 4 mins ago		3 March	~~~~~		
VK2RG 2015.12.28 02:30, 21	VK2TPM lkm, -28dB, 21k/w	14.097040		OBeijing	North	Pacific Ocean
	VK2TPM 148km, -9dB, 430k/w	14.097177	TR.	O Shanghai	Ð	Lo
Dec 28 02:24	- 10 mins ago		Kolkata			
ZL3DMH 2015.12.28 02:24, 21	VK2TPM 48km, -17dB, 430k/w	14.097176	Bang	ikok		
Dec 28 02:22	- 12 mins ago					
VK2TPM 2015.12.28 02:22, 11	VK5MR 32km, -7dB, 566k/w	14.097047	Ocean	- A	ZL2IAS ZL2IAS→VK2TF	PM: -27dB x2
VK2TPM 2015.12.28 02:22, 19	ZL4JW 96km, -14dB, 998k/w	14.097751		AUSTR		South Pac
	ZL3DMH 48km, -22dB, 1074k/w	14.097052			Statues Of	
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#### MacLogger DX HD (\$30.99) iOS

- Monitors spots from your favorite DX cluster for DXing, contesting, and rag-chewing
- Alerts to rare contacts and band openings



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#### HF Propogation (\$Free) Windows

- Current conditions of HF and VHF bands
- Additional solar and terrestrial propagation related data



ham	ar ban			- M	er data	
23 S	ep 2012 0119 G	MT.	7		Sep 2012 0119 GM	
Band	Day	The second second		Solar Flux	- 126	gre
80m-40m	Fair	Good		Sun Spots	1 jan : 74	sta
30m-20m	Good	Good	N	A-Index	4	
17m-15m	Good	Good	1	K-Index 🛒	1	No Report
12m-10m	Fair	Poor		X-Ray	B4.6	
Geomag	VR Q	UIET		Helium Line	161.6	
Noise Level	S0-		ă	Proton Flux Electron Flux	2.04e-01 1.51e+02	
VHF Aurora	65	.6		Aurora	.: 3	3.06 <u>C</u>
Aurora Lat	Band C	losed	N	Magnetic Field	0.1	E
E-skip EU 2m	Band C	losed	the second s	Solar Wind	407.6	S
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E-skip EU 6m	Band C	losed			100	
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Target Body, Neck Or Face BodyWrapParties.com					e to Diet Supp ubeauty.com/su	Sector and the sector of the

### Ham Reference (Free) Windows

- Band plans
- Resistor color codes
- Dipole antenna tuning
- Cheat sheets for new hams



#### HAM RADIO REFERENCE conditions ban latest GOES solar x-ray image GOES-15 SXI Level-1 AA/SWPC Boulder, CC DN/sec. 10257 7692 2564 2011-11-22 23:24:00 UTC PTHNA 0.4 5 latest NOAA geophysical alert message

:Product: Geophysical Alert Message wwv.txt :Issued: 2011 Nov 22 2105 UTC # Prepared by the US Dept. of Commerce, NOAA, Space Weather Prediction Center

#### HAM RADIO REFERENCE

## 40m band

40m	cw	phone	image	data
tech	7.025- 7.125	not allowed	not allowed	not allowed
genl	7.025- 7.300		7.175- 7.300	7.025- 7.125
extra				7.000- 7.125

#### maximum output power:



#### frequency -- mode

7.040 -- RTTY/Data DX (300 baud) 7.080-7.125 -- RTTY/Data (300 baud) 7.171 -- SSTV 7.290 -- AM calling frequency

Note: Phone and Image modes are permitted between 7.075 and 7.100 MHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU

### Ham Radio Tools (Free) Android

- look up call sign information
- Current GPS location
- Log contacts
- Calculate ¼ and ½ wave length antennas



#### Ham Radio Reference (\$0.99) iOS

- Band Plans
- Q Codes

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- Phonetic Alphabet
- Metric Prefixes
- Ham Radio Reference **Electronic Formulas** Ham Radio... Band Limits - US dB v. Power > **Band Limits - Canada** Frequency v. Wavelength > > Capacitance Band Plans > > Equiv. Capacitance - Parallel > Country Prefixes > ARRL Numbered Radiogra... Equiv. Capacitance - Series > Electronic Formulas Equiv. Resistance - Parallel > Ham Radio Equiv. Resistance - Series Grid/Distance/Time > > Reference CQ CQ CQ Q Codes Field Due to Point Charge > > Force - Coulomb's Law **RST System** > > Maura Cada Mandina Dautiala

iPod 🛜

10:17 AM

1 📟

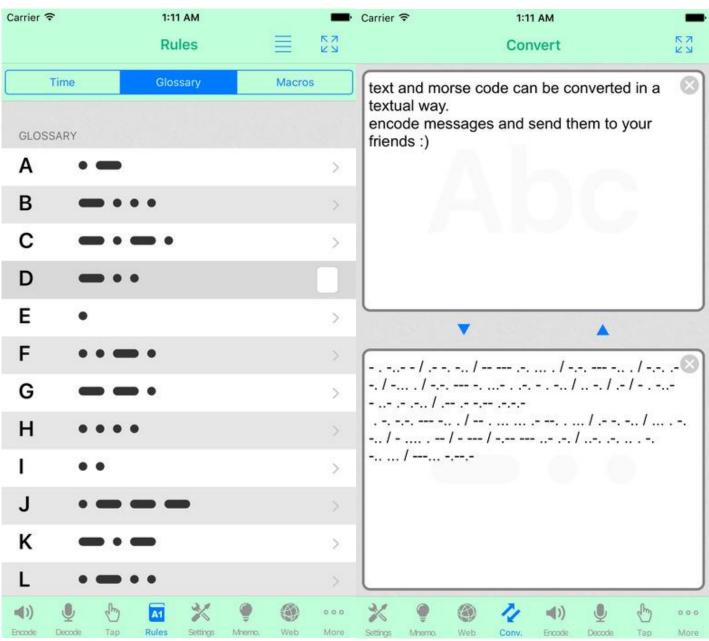
9:51 PM

iPod 🕤

#### Morse It (\$0.99) iOS

- Automatically converts typing to morse code and back
- Create audio files to train your ears to learn code





#### Morse Code Trainer (Free) Android

- Letter and word training
- Adjustable speed
- Adjustable frequency
- Electronic handbook

