

Welcome to Prepper Camp 2016

OPSEC In the Air and for Over Your Head –
How to Listen to Any Frequency and
How to See the Drones Before They See You!

- Forrest Garvin
PreppingAcademy.com



[Forrest Garvin](#) is a former US Air Force NCO who served with the 317 MAC and JSOC SOLLII out of Pope Air Force Base. After leaving the military, Garvin worked in the technology field as a Web Master for NationsBank and then went on to create several technology startups. Garvin is a survival instructor, NRA instructor, HAM operator, Krav Maga Apprentice Instructor, Speaker, Educator and Radio Host. Garvin has been a prepper since Y2K. Garvin also owns the Carolina Survival & Preparedness Academy in Charlotte, NC. His survival academy offers courses in self-defense, homesteading, firearms, family preparedness and survival skills. In addition, he consults with preppers and survival groups around the USA. Garvin created the Carolina Preppers Network, which has over 1,800 members in the Carolinas. The Carolina Preppers Network is the most active meetup prepper group on in America.

The Prepping Academy: <http://thepreppingacademy.com>

Preppers Consulting: <http://preppersconsulting.com/>

Carolina Survival & Preparedness Academy: <http://carolinapreparedness.com>

Carolina Preppers Network: <http://carolinapreppersnetwork.com/>

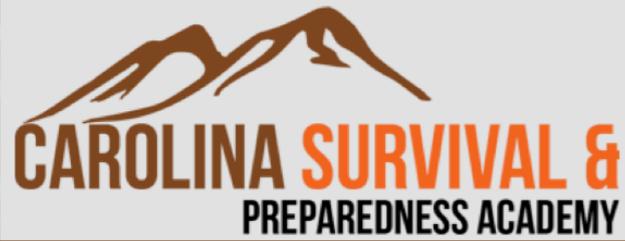




CAROLINA SURVIVAL &
PREPAREDNESS ACADEMY



carolina
PREPPERS
NETWORK



Enter keywords to search.....



- Wilderness Survival – Core Survival Skills
- Introduction to Preparedness
- Fundamentals of Preparedness
- Bug Out Bags
- Food Storage Basics
- Survival Fire Starting
- Emergency Shelter
- Primitive Cooking
- Mutual Assistance Group
- Family Emergency Preparedness
- Urban Survival Training
- Water Survival Training
- Alternative Energy
- Communications
- Map Reading and Land Navigation
- GPS Navigation



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✓ Access to the LIVE Prepping Academy After Show	✓ Access to all instructors via email and chat



The Prepping Academy Radio Show Friday Nights - 9:00pm



<http://prepperbroadcasting.com/the-prepping-academy/>



Welcome P!



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PREPPERS
network



Greensboro - Charlotte - Raleigh - Hickory
Columbia - Greenville - Myrtle Beach - Wilmington

CarolinaPreppersNetwork.com



OPSEC In the Air
and for Over Your Head ~

OPSEC In the Air and for Over Your Head ~

Detecting drones and other aircraft, predicting weather, monitoring police, fire, EMS, air traffic, ham, business radio, radio astronomy, finding ships at sea are some of the things that you can do if you have a key to the radio spectrum.

OPSEC In the Air and for Over Your Head –

How to Listen to Any Frequency and
How to See the Drones Before They See You!

SDR (Software Defined Radio) is similar to a James Bond spy device. With this \$20 dongle, you can listen to any frequency between 52 and 2200 MHz.

Some add-ons allows you to listen to ALL radios signals. You will be able to track air planes, helicopters and drones on a radar screen by using your laptop.

You will also be able to download weather radar photos from satellites. All this can be done with no internet connection.



SDR#

Software Defined Radio



It's a receiver that receives from 1kHz to 300GHz- That includes CB, 10M, 6M, 2M, 220, 440, and 900mhz, FRS, GMRS, MURS, NOAA Weather, business, and many more.



It's a receiver that receives from 9kHz to 300GHz- That includes CB, 10M, 6M, 2M, 220, 440, and 900mhz, FRS, GMRS, MURS, NOAA Weather, business, and many more.

\$200



SDRPlay - \$149

Coverage from 0.1MHz to 2GHz you
can listen to just about anything



\$330.00

Transmit or Receive any radio
signal from 1 MHz to 6000 MHz

SDRSharp

SDR# v1.0.0.1165 - IQ Imbalance: Gain = 1.000 Phase = 0.000°

Play RTL-SDR / USB Configure VFO 0.100.300.000

Radio

NFM AM LSB USB
 WFM DSB CW RAW

Shift

Filter type Blackman-Harris 4

Filter bandwidth Filter order

Squelch CW Shift

Snap to grid Step size 50 kHz

Correct IQ Swap I & Q
FM Stereo Mark Peaks

Audio

AF Gain

Samplerate 48000 sample/sec

Input [MME] Microsoft Sound

Output [MME] Microsoft Sound

Latency (ms)

Unity Gain Filter Audio

Zoom

Contrast

Speed

<https://www.flightradar24.com>



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Download on the App Store

ANDROID APP ON Google Play





B61444 / JBU1444



JetBlue Airways

FLIGHT STATUS ?

PBI

WEST PALM
BEACH



EWR

NEW YORK

SCHEDULED DEPARTURE 19:20

SCHEDULED ARRIVAL 22:07

ACTUAL DEPARTURE 19:46

ESTIMATED ARRIVAL 22:05

AVERAGE FLIGHT TIME 02:21

AVERAGE DELAY 00:08

GREAT CIRCLE DISTANCE: 1,650 KM

1,085 KM
01:21 AGO



622 KM
IN 00:57

AIRCRAFT DETAILS ?

TYPE (A320)

Airbus A320-232



REGISTRATION

N633JB

MODE-S CODE

A849AB

SERIAL NUMBER (MSN)



AGE



FLIGHT DETAILS ?

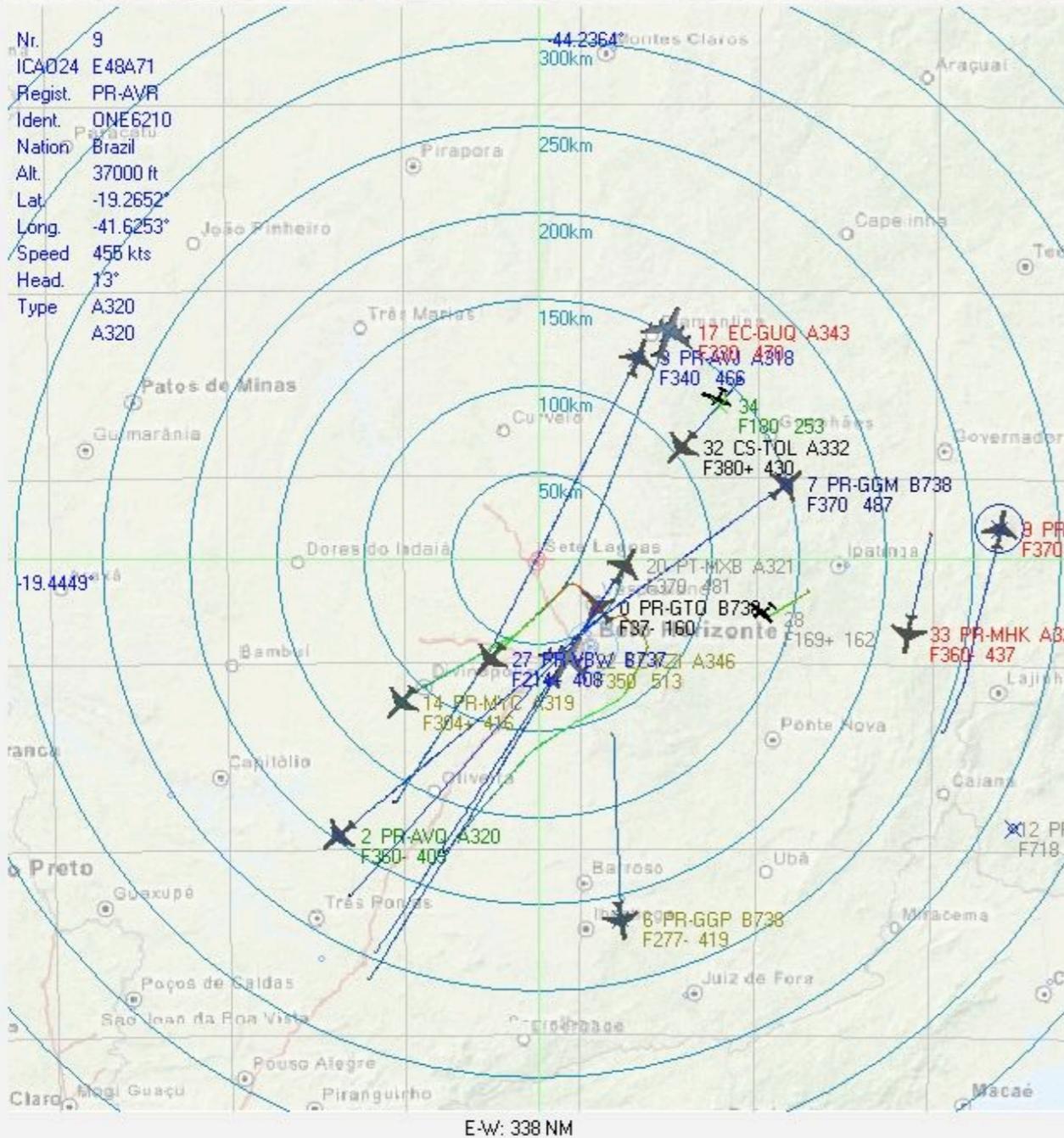


GROUND SPEED
454 kts

TRUE AIR SPEED
N/A



ADSB Scope



Compress Track 7
 Compress Track 17
 Compress Track 7
 Compress Track 17
 Compress Track 20
 Compress Track 27
 Compress Track 20

select COM-Port

Connect

adsbPIC-Decoder-Mode
 0 - OFF
 1 - reserved
 2 - all received data
 3 - only DF17
 4 - only DF17 + CRC-ok

Nr.	ICAO24	Regist.	Ident	Alt	Lat	Long	Speed	Head.	Climb	Type	T-ou
24	E47E28	PP-CFF		45000						F2TH	0
23	E48DAD	Brazil		26000							5
22	3433D2	EC-KZI	IBE6840	35000	-20.00	-44.09	513	31		A346	0
21	E4831E	PR-AYD		24075						E190	404
20	E480A4	PT-MXB	JJ3548	37000	-19.48	-43.76	481	32		A321	0
19	38289B	France									12
18	E48D12	Brazil									1286
17	34114E	EC-GUQ	IBE6824	32975	-18.23	-43.51	470	21		A343	65 M
16	E48994	Brazil		34000							46 M
15	E48616	PR-AYF		32000						E190	888
14	E4827E	PR-MYC	TAM3223	30375	-20.21	-45.01	416	230	1344	A319	773
13	A11DC8	USA									1335
12	E4823F	PR-GGO	GLO1391	71800	-20.87	-41.52				B738	538
11	E48613	PR-GUE		4850							1469
10	A9E8CE	PR-VBY		4725						B737	1119
9	E48A71	PR-AVR	ONE6210	37000	-19.27	-41.63	455	13		A320	1035
8	A6757C	N515RC								PAY3	791

U-signal =
 U-ref =
 Status:

Framerate: 2227 Frames/min (186)
 Data-Quality: 90 %
 Time: 16:16:04

Center: Lat=-19.4449° Long=-44.2364° Range: 148 NM = 266 km Coord: -19.2608° S / -41.6177° W Framerate: 2227 Frames/min (186) Time: 16:16:04



ADS-B Scope

PlanePlotter from COAA - Map: C:\COAA\PlanePlotter\Chart files\globe.jpg -

File View Process Options Review Tools Help

ICAO Reg. Flight Lat. Long. Alt. Course Speed Typ

?	ZK-NGJ	NZ0432	0.00000	0.00000	0'	0.0°	0.0kts	
?	ZK-NGD	-1	0.00000	0.00000	0'	0.0°	0.0kts	
?	ZK-NGO	NZ0510	0.00000	0.00000	0'	0.0°	0.0kts	
?	ZK-SJB	NZ0517	0.00000	0.00000	0'	0.0°	0.0kts	
?	ZK-NCK	NZ4031	0.00000	0.00000	0'	0.0°	0.0kts	
?	! SQ	701S17	0.00000	0.00000	0'	0.0°	0.0kts	
?	A6-ECL	EK0434	0.00000	0.00000	0'	0.0°	0.0kts	

For Help, press F1

Your query for aircraft registration A6-ECL. Result: 1 row.

Registration	Manuf.	Model	Type	c/n	I/n	i/t	ICAO24	Selcal	Reg / Opr	built	test reg	delivery	prev.reg	until	next reg
A6-ECL	Boeing	777-36NER	B77W	37704	748	L2J	896113		UAE [EK] Emirates	2008		2008-12-16			

A6-ECL recently seen 2013-04-18 as flight EK0434 (UAE434) from BNE/YBBN (Brisbane) to AKL/NZAA (Auckland).

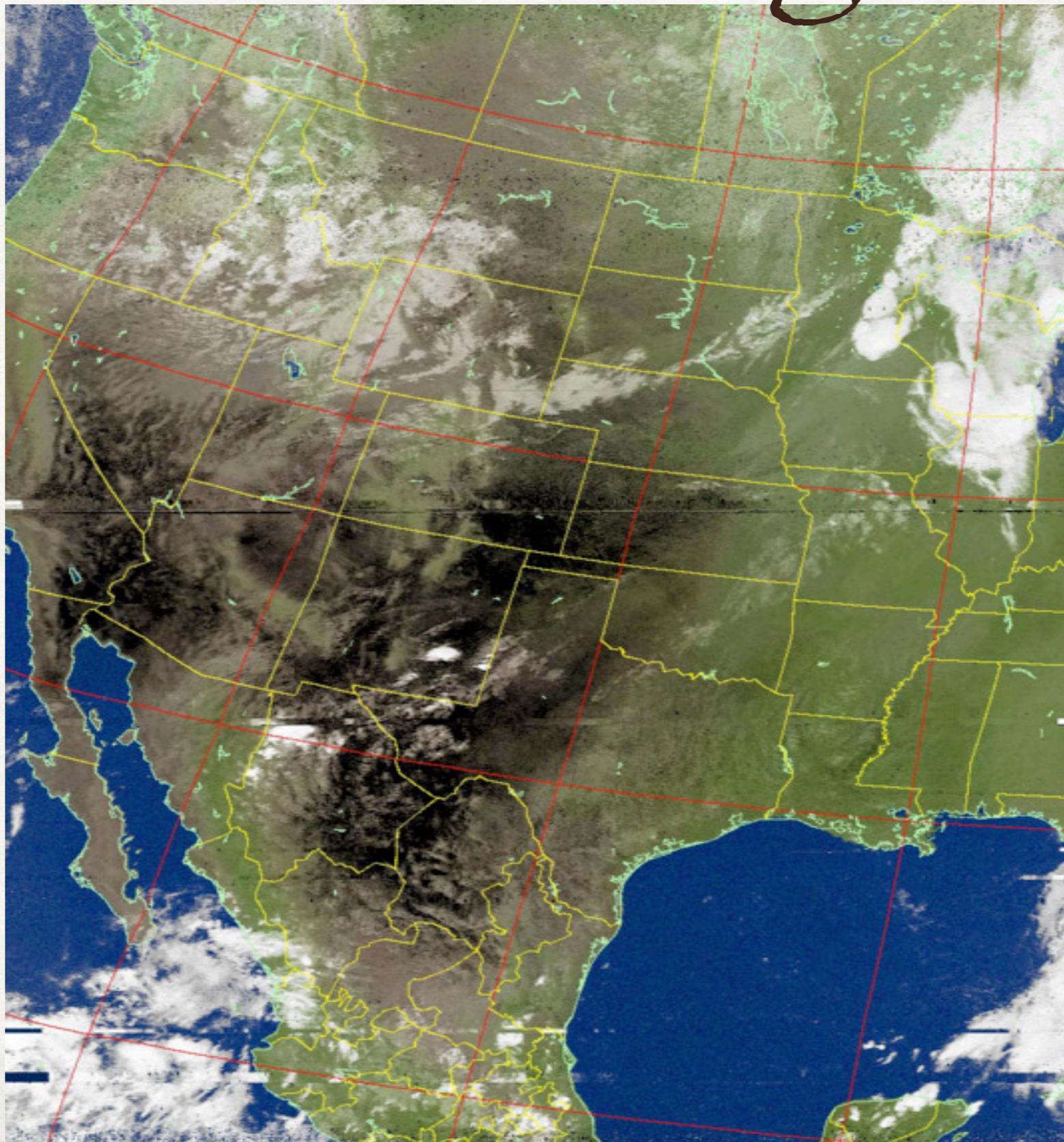


Photo: Bernd Knoche, planepictures.net

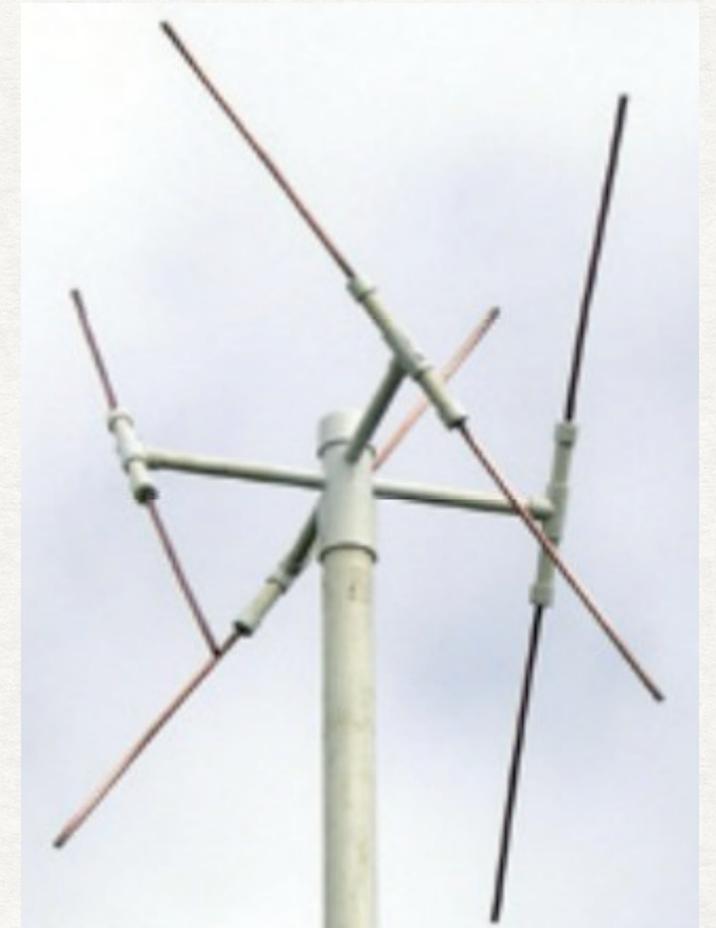
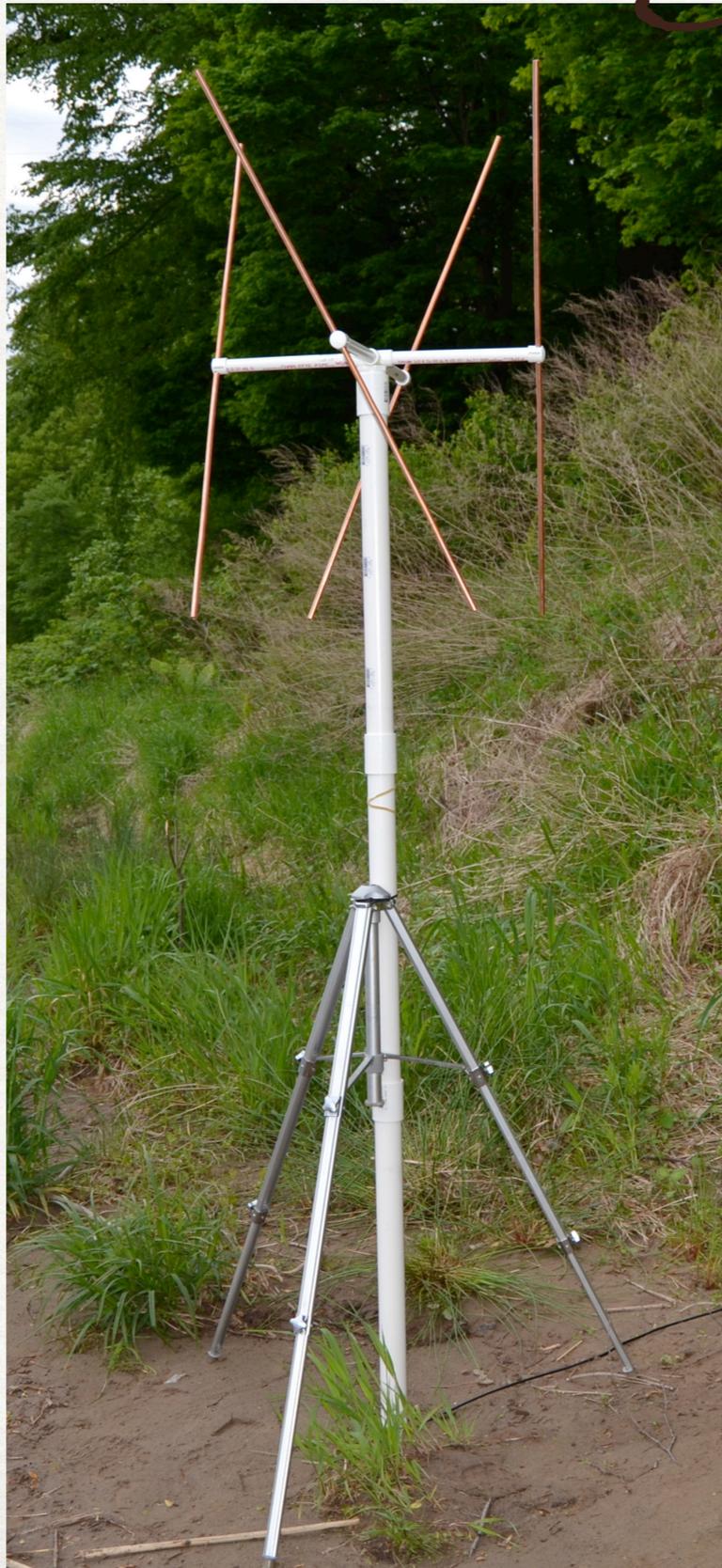
WXtoImg

The screenshot displays the WXtoImg software interface. On the left, a satellite image of NOAA 18 is shown. The central configuration panel is titled "SDR# v1.0.0.968 - IQ Imbalance: Gain = 0,994 Phase = -0,115°". It includes a "Radio" section with options for NFM, AM, LSB, USB, WFM (selected), DSB, CW-L, and CW-U. The frequency is set to 137.912.500, and the center frequency is 137.500.000. The filter type is Blackman-Harris, with a bandwidth of 36000 and an order of 400. The audio section shows an AF Gain slider, a sample rate of 48000 sample/sec, and input/output settings for [MME] Microsoft-geluids. The bottom status bar shows the recording date and time (2013-03-22 14:47 UTC), satellite details (NOAA 18 Elev: 14.2° Azi: 331.2° 10:11 / 11:23), and recording progress (Recording NOAA 18 (northbound 47 W) on 137.9125 MHz from 14:36:59 UTC...).

WXtoimg



WXtoimg



DEMO

SDR...

The bad!

Remote Keyless System

When a button is pushed, it sends a coded signal by radio waves to a receiver unit in the car, which locks or unlocks the door. Most RKEs operate at a frequency of 315 MHz for North America-made cars and at 433.92 MHz for European, Japanese and Asian cars.

Wireless Doorbell

Most manufacturers use the 300MHz to 433MHz bands for their doorbell frequency range. The biggest companies use a frequencies around 315MHz

Garage Door Openers

The third stage of garage door opener market uses a frequency spectrum range between 300-400 MHz and most of the transmitter/receivers rely on hopping or rolling code technology. This approach prevents criminals from recording a code and replaying it to open a garage door.

Baby Monitors

Baby monitors generally use wireless systems, but can also use wires or may operate over existing household wiring such as X10. Wireless systems use radio frequencies that are designated by governments for unlicensed use. For example, in North America frequencies near 49 MHz, 902 MHz or 2.4 GHz are available.

Links & More Information

Links discussed-

NooElec NESDR USB Dongle- <http://goo.gl/YBTBkY>

Software to use the SDR USB Stick-

SDR#- <http://airspy.com/download/>

Software to download data directly from weather satellites

WXtoImg- <http://www.wxtoimg.com/>

Software to track airplanes and detect drones-

ADSB Scope-

http://www.sprut.de/electronic/pic/projekte/adsb/adsb_en.html#downloads

RTL 1090- <http://rtl1090.web99.de/>

For those of you who can't wait for our tutorials,
here is the link to the

RTL-SDR.com tutorial on getting started.

There are other tutorials on the "tutorial" tab as
well- <http://www.rtl-sdr.com/rtl-sdr-quick-start-guide>



Join Me for

Online OPSEC ~

How to Use the Internet Without Anyone Knowing It.

OPSEC for Online.

Stop being watched! In this class we will introduce you to ways you can remain private on the internet. We will go over how to use the TOR browser on the TAILS Operating System. We will also discuss why everyone should use the Signal app for text messaging.

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more information



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