





Summits On The Air

"A Trip to Pine Mountain"



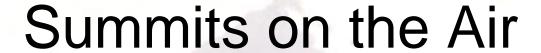
Presented by:

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Original SOTA PowerPoint Created by:

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- How did it start?
- What is it?
- How do I participate?
- Can I get any awards?
- How do I start activating and what equipment should I use?





- Our SOTA trip to Pine Mountain near Whitesburg, KY [border of KY and VA]
- The Journey on June 3, 2017
- Our Equipment
- Short Video Compilation ~ 10min
- Stories and Lessons learned
- Q & A Equipment and Gear Display



"For as long as there has been radio, amateurs have taken their stations to the tops of hills...

"It's perhaps a little surprising then that no formal programme for activating summits existed until March 2002!"

Radcom, July 2004

How did SOTA start?



- Original idea of John, G3WGV
- Developed with Richard, G3CWI
- Launched on March 2nd 2002
- Internet based activity
 - Industrial strength database by Gary, G0HJQ
 - 1.8 million QSO's in SOTA Database
 - More than 5,900 registered users
 - Sophisticated web portal by Jon, GM4ZFZ
 - Alerting, spotting, forum, etc
 - 55 participating countries and nearly 60,000 peaks in the SOTA database and growing fast

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What is the SOTA program?

"Summits on the Air (SOTA) is an award program for radio amateurs and shortwave listeners that encourages portable operation in mountainous areas. SOTA has been carefully designed to make participation possible for everyone - this is not just for mountaineers! There are awards for activators (those who ascend to the summits) and chasers (who either operate from home, a local hilltop or are even Activators on other summits)." From www.sota.org.uk





- One set of generic rules for everyone
- DX entities form one or more "Associations"
 - USA and Canada are exceptions
- Associations maintain a list of summits
- SOTA scoring is based on elevation in that Association
- Activators, Chasers & SWLs are participants
- Various awards, Honor Rolls, etc.
- Totally Internet based administration
- Patterned after IOTA, Islands on the Air

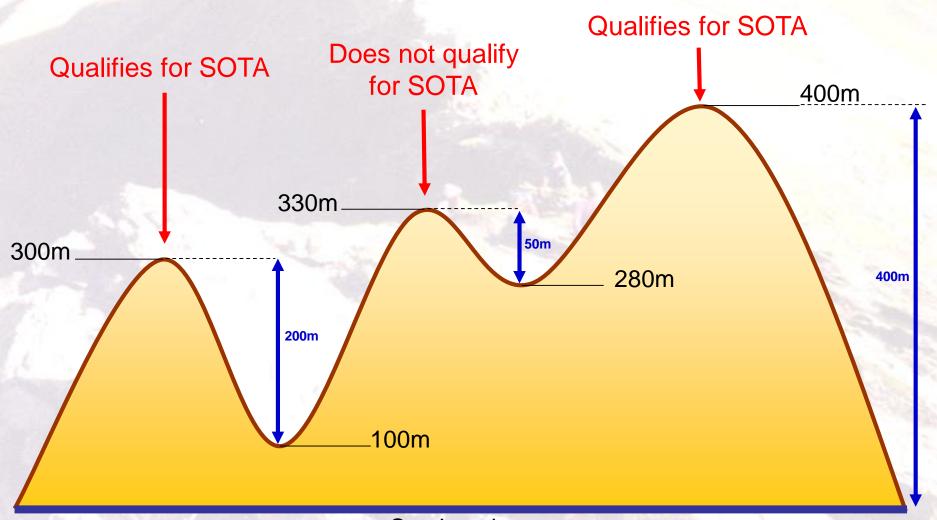
When is a peak not a SOTA peak? SOTA



- A qualified SOTA peak is when:
 - Prominence is greater than 500 ft (150m) from surrounding peaks.
- Peak qualification rules:
 - Vertical separation concept (500' prominence)
 - Must be a readily accessible summit
 - Private property with permission only (no trespassing)
 - Respect for Native American and Government properties



Prominence Definition





SOTA Scoring

- Based on ASL elevation of a qualified peak
 - Varies by Association
 - May include a "seasonal bonus" for activators
 - East Coal Field 196, Knobs Arc 13, Pennyrile 5- 214
 Total
- Scoring example for WK4 Kentucky:

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Under 1500' 1 point

=>1500' to <1800' 2 points

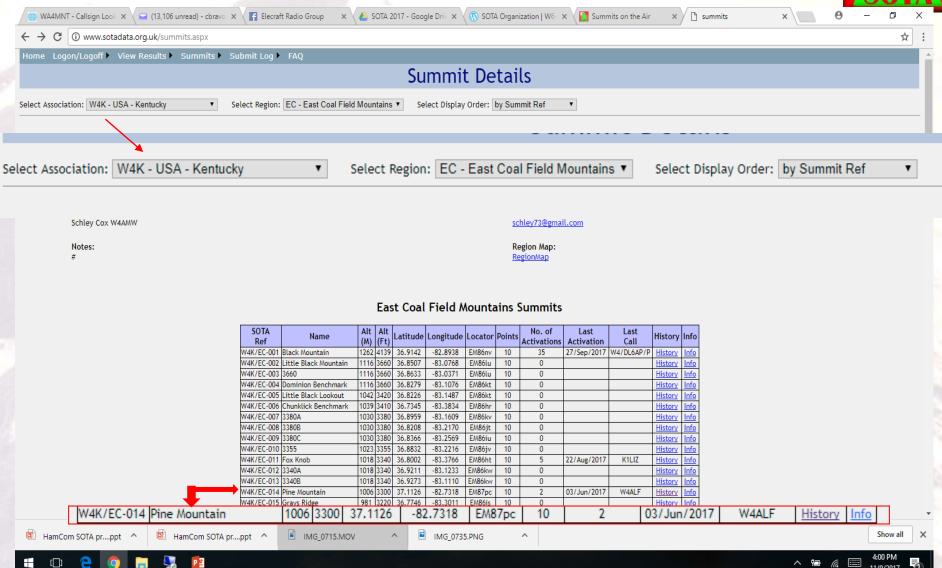
=>1800' to <2100' 4 points

=>2100' to <2400' 6 points

=>2400' to <3100' 8 points

3100' + 10 points (Pine Mtn. 3300 Ft)
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W4K/EC-014, Pine Mountain - 1006m, 10 Points

Quick links: Back to W4K Association | Back to EC Region

Association: USA - Kentucky Region: East Coal Field Mountains

Latitude: 37.1126 , Longitude: -82.7318

QTH Locator: EM87pc

Today's Sunrise: 12:04 UTC , Today's Sunset: 22:25 UTC

Google Map | Google Earth | OpenStreetMap | SOTA Map

Resources

Feel free to add External Links 🗗 and Articles relating to this summit that activators and chasers may find useful or interesting. Please read the disclaimer notice at the bottom of the page.

Pine Mountain Trail Info Submitted by AI4BJ on (09 Jun 2017)

DISCLAIMER: The SOTA programme and its Management Team is not responsible for the content of external internet sites or for information added by third parties to this website. Please contact the SOTA Management Team if you have concerns about submitted content. The existence of information relating to a particular location does not confer or imply any right of access. Participation in the SOTA Programme is at the risk of the participant.

Summit Activity

Total Activations: 2

2 View All

Latest By:

AI4BJ on 03 Jun 2017

W4ALF on 03 Jun 2017

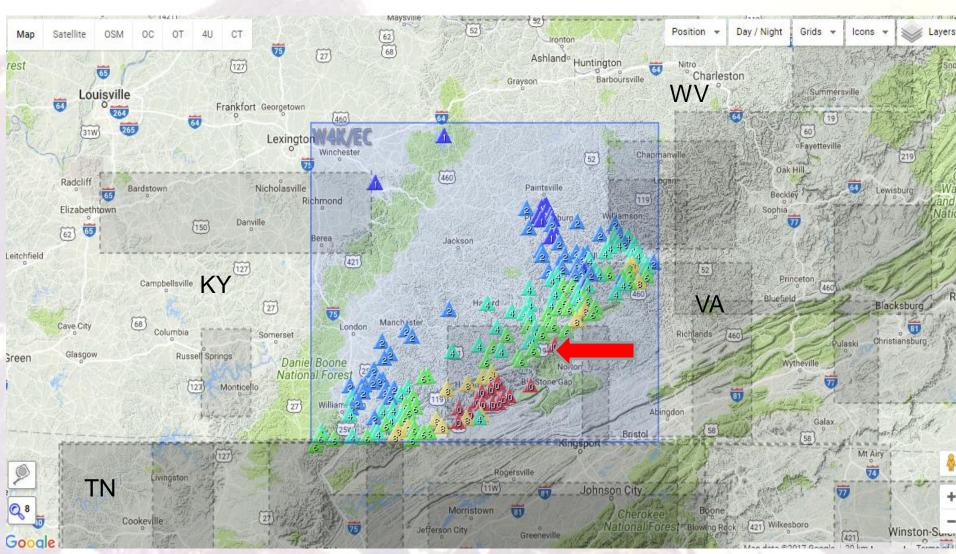
First Activated by:

W4ALF on 03 Jun 2017

25 QSOs on these bands:

40m	12	48%
20m	13	52%













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- Activators those who "activate" a peak
- Chasers those who work the activator
- Short Wave Listeners those who can confirm a qso
- Each group scores "points" for their participation. Points then total for awards.

Web Tools for SOTA



- www.sota.org.uk
 - The main site about the SOTA program
- www.sotawatch.org
 - Alerts, spots, map, and a forum
 - Register to participate
 - Anyone can read information posted
- database.sota.org.uk/
 - Log chasing and activating QSO's
 - Register to enter QSO's and see more detail



Login: Callsign Password Login | Register | Help!

Home | Spots | Alerts | Summits | Reflector | Website | Database | Video | Photos | Recent Summit Info

This page refreshes every 1 minute. Last updated 15:03:48 UTC.

Latest Spots	>> more spots
Mon 14:54 GW1INK/P on <u>GW/SW-022</u> Steve with his usual 59 signal (Posted by ON3WAB)	5. 3985 ssb
Mon 14:49 GW1INK/P on GW/SW-022 (Posted by G4BLH)	5. 3985 ssb
Mon 14:05 HB9CKV/P on <u>HB/GR-111</u> tks qso Hans (Posted by HB9AAQ)	3.746 ssb
Mon 13:59 G4OWG/P on <u>G/SC-005</u> (Posted by GW4BVE)	5. 3985 ssb
Mon 13:24 G4OWG/P on <u>G/SC-005</u> *In about 15 mins (Posted by G4OWG)	5.3985 ssb

Upcoming Activations

>> more alerts

Tue 08:30	F5UKL/P	on <u>F/PO-146</u>	10.123-cw,14.061-cw,7.031-cw
	+/-30mn.	Hope to meet you.	(Posted by F5UKL)

- Tue 09:30 **OE/HA5AZC/P** on **OE/BL-011 7.032-cw**,**145.525-fm** (Posted by HA5AZC)
- Tue 11:00 **F6ENO/P** on <u>F/AM-330</u> 7.032-cw,7.099-ssb,10.115-cw
 AM-340 later, starting 5 day trip in F/AM, will try to alert (Posted by F6ENO)
- Tue 13:30 G10PV/P on G/WB-006 145-fm,70-fm,433-fm
 Also 144 SSB if wx ok (Posted by G10PV)
- Wed 11:00 G10PV/P on G/WB-015 145-fm,70-fm,433-fm
 Also 144 SSB if wx ok (Posted by G10PV)

Home | Spots | Alerts | Summits | Reflector | Website | Database | Video | Photos

Reflector Latest

SOTA T Shirts, Sweatshirts and by GM4TOE, #19 by ON3WAB, 8mins ago

SOTA NEWS SEPTEMBER 2009 by G4SSH, #9 by M6WOW, 17days ago

Elecraft K1 kit seeking a good by GI4FLG, #4 by G8ADD, 7mins ago

DD 1LD-first Mountain Goat in (by DJ5KZ, #16 by G8ADD, 15mins ago

2m Backpackers Contest by G3CWI, #35 by M3EYP, 54mins ago

250+ Uniques

by G3CWI, #10 by MM0FMF, 76mins ago

wrong refernce!

by HB9AFI, **#28** by G4OIG, 5hrs ago

O/T - Radio at school

by M1EYP, #44 by M1EYP, 18hrs ago

Worldwide SOTA first!

by MOLKB, #2 by DL3SBA, 19hrs ago

Video Upload

by MMOROV, #11 by G3CWI, 21hrs ago

triple French SOTA F/AM-256-

by F5HTR, #2 by F6ENO, 22hrs ago

Don't panic!!!

by G3VQO, #2 by GW7AAV, 25hrs ago

>> more topics...



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- Certificates
- 100, 250 and 500 points
- Mountain Goat
 - 1000 activating points
- Shack Sloth
 - 1000 chasing points
- SWL
- Association awards
- Further certificates at 2500, 5000, 10000 points





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Bands and Modes



- VHF+
 - A lot of 2m FM
 - -SSB
 - CW occasional
- HF
 - A lot of CW, due to use of QRP equipment
 - 10118 kHz, 14060 kHz, 14342.5 kHz are popular



Principal Rules for Activators

- Cannot use motorized transport to summit
- Must operate from portable power source
- Must carry all equipment to summit
- Must make at least four QSOs
- QSO's via repeaters don't count

Equipment Used for Pine Mtn. Som



- It's all a lot easier these days!
 - Equipment is smaller, lighter and more efficient
 - Battery technology has improved immensely
- W4ALF KX2 Radio, Lifepo4 4200Mah Batt, Wire Antenna 66ft Qrp OCF, hung in trees with throw bag/Throw line
- AI4BJ KX3 Radio, Lifepo4 4200Mah Batt, Wire Antenna in sloper configuration with fiberglass mast as support.







Handheld Radios e.g Yaesu VX7



Mountain Topper MTR3B



Portable Radios e.g. Yaesu FT817



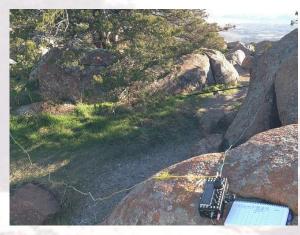
Elecraft line KX2 and KX1













Wire antennas: (EFHW, OCFD, linked dipole, resonant dipole) or Commercial (Portable Mag Loop or Buddipole system)
Support for Ant: Fiberglass Pole/Mast or Throw Line and Weight where trees are avail...

Batt: LiPO/LiFePO/etc are used due to light weight, high output

Technology



- Apps!
 - iPhone
 - SotaGoat
 - Pocket SOTA
 - HamLog/Pignology
 - RepeaterBook (repeater QSOs don't count but they can drum up some 146.52 or if you REV and log a simplex QSO without the repeater, it counts)
 - Android
 - Pocket SOTA
 - SOTA Finder
 - SOTA Logger



SOTA Program Summary

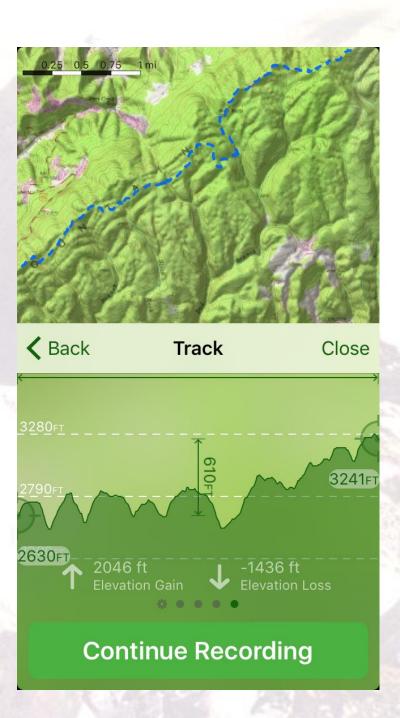


- So now go take a hike; go climb a peak!
 - Chasing
 - Activating
- Use the SOTA Internet based tools
 - Alerting
 - Spotting (if you won't have internet on the summit, pre-spot, alert, cell ph a buddy, APRS
 - Database
- Be careful it's addictive!



Play Video Here







Have a go!



- You don't have to be a mountaineer!
 - Some summits where you can drive to the top, just walk out of the activation zone and then back up
 - You can participate from your shack
- But if you are...
 - There are many first expeditions yet to be done
 - It's a good excuse to enjoy the outdoors on the summit looking at the views
 - It's a great way to bring two or more hobbies together



Questions?

www.sota.org.uk

www.sotawatch.org

http://groups.yahoo.com/ group/nasota/

END OF PRESENTATION