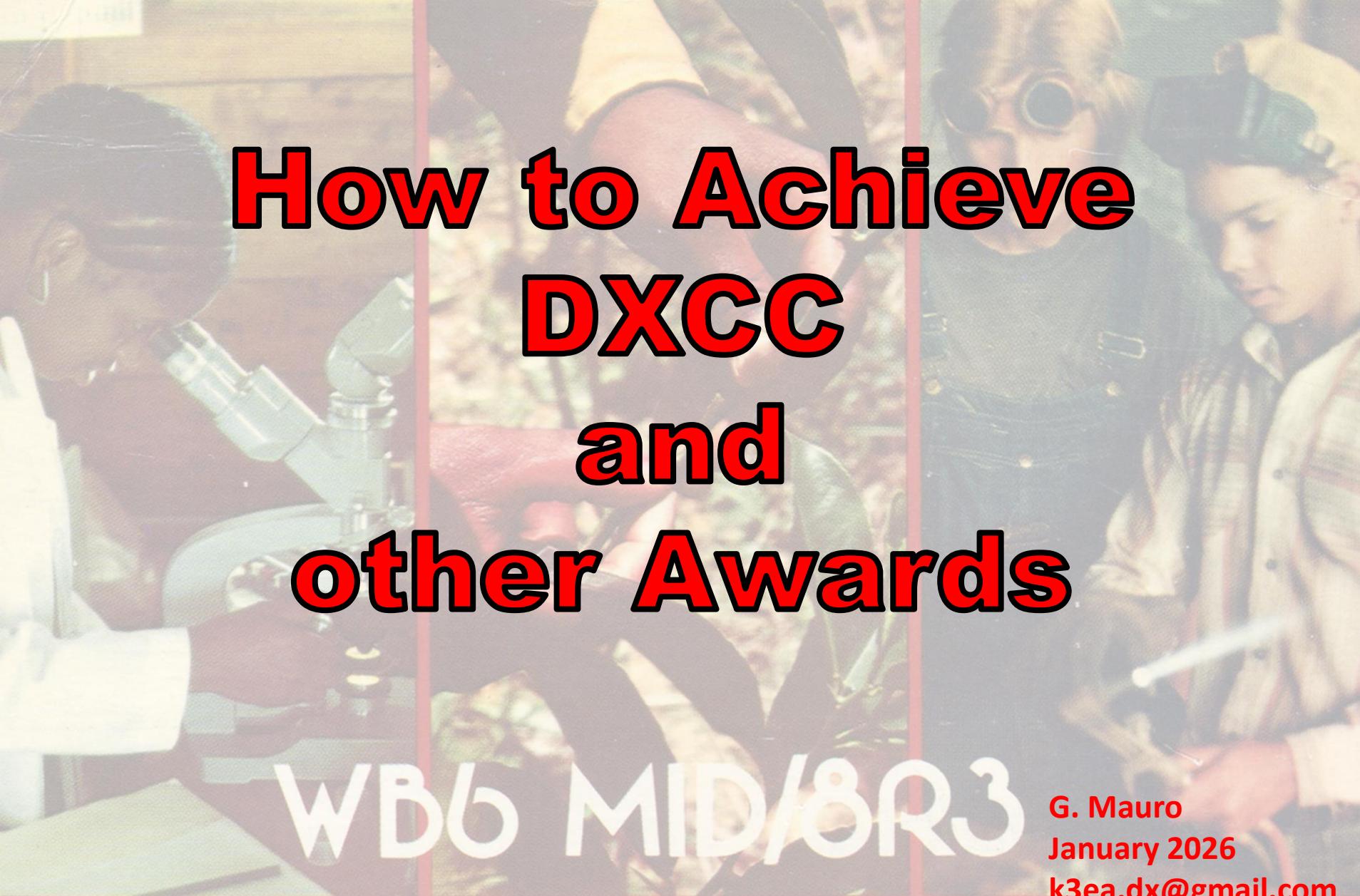


PEOPLES TEMPLE AGRICULTURAL/MEDICAL PROJECT



How to Achieve DXCC and other Awards

WB6 MID/8R3

G. Mauro
January 2026
k3ea.dx@gmail.com

ALBERT TOUCHETTE * JONESTOWN Port Kaituma, N.W.R., Guyana, S.A.

- **Awards programs**
 - DXCC and Worked All Zones
 - Other Popular Awards
- **Goals and Strategies**
- **Awards Program Process**
 - Confirmation
 - Verification
 - Application
- **QSL cards and Electronic Confirmations**
- **LOTW**
- **Operating Aids & Resources**
 - Software: digital modes, logging, LOTW
 - Online Resources: DX websites, propagation reports, spotting networks, OQRS, QRZ.com
 - Other resources

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C
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K
H

home of the Quad



AWARDS PROGRAMS

- Awards programs have been around almost as long as QSL cards
- The two oldest, and most prestigious: are DXCC and Worked All Zones

ARRL DX Century Club (DXCC)

XX9ET

- Need to confirm 100 “countries”
- Program started in 1937
 - Most of the early activity was on 20m and CW
- Countries/entities are determined by the ARRL DXCC committee
 - Alaska and Hawaii are considered “countries”
 - Countries can be added/deleted due to geo-political events
- Since 1946 the number of DXCC countries has varied between 322 and 345
- The “Current” country list total is 340 countries

ARRL DXCC (cont.)

- The basic “Mixed” award is earned with confirmed contacts with 100 countries, combined from any band (except 60m), and any mode
- “Honor Roll” status is earned by confirming in the numerical top ten of the total: minimum 331 “current” countries are needed
- Awards can also be earned for 100 countries on any single band or mode (Phone, CW, Digital), e.g. 20m DXCC or Phone DXCC
- “Deleted” countries are allowed for DXCC totals, i.e. Canal Zone
 - Not allowed for 5 band, Trident, Honor Roll or Challenge awards

Other Popular Awards, ARRL

ARRL Awards

- U.S. hams must be a member of the ARRL to participate
- **Worked All Continents (WAC):**
 - 1 contact each: NA, SA, EU, AF, OC, AS
- **Worked All States (WAS)**
 - **WAS Triple Play** – 50 states x 3 modes: Phone, CW, Digital
- **VHF/UHF Century Club (VUCC):** confirm 100 grid squares
 - 4 digit Maidenhead grid squares are 1° latitude x 2° longitude
(approx. 70 x 100 mi. at 45° N)
- **5 Band** version of **DXCC, WAC, WAS** (10, 15, 20, 40 and 80m req'd)
 - Endorsements for other bands can be added: 6, 12, 17, 30, 160m
- **DXCC Challenge:** 1 point is awarded for every DXCC country worked, per band (6m-160m, except 60m). 1000 points min. required.
- **DXCC Trident Award:** 100 countries x 3 modes: Phone, CW, Digital
- Many awards have endorsements for mode, additional bands, Satellite, etc.



Worked All Zones (WAZ) award

- Oldest DX award, started in 1934
- Need to confirm all 40 zones
 - Basic award is Mixed WAZ: any band, any mode
 - Single band awards are single mode only, e.g. 20 SSB WAZ
 - Single mode awards can also be earned, e.g. CW WAZ
- Formerly sponsored by CQ Magazine
 - Currently, the WAZ manager is N4BAA
- Zones are defined geographic areas and generally not affected by geo-political events
- Confirmations are supported by LOTW
- More difficult than DXCC
 - Zones with a sparse ham population
 - Zone 2 – Northeast Canada
 - Zone 34 – Egypt, Sudan, S. Sudan, Libya
 - Zones 18 & 19 – Central and Eastern Siberia
 - Zone 23 – Mongolia and the Uygher region of China
 - Zone 29 – Western Australia

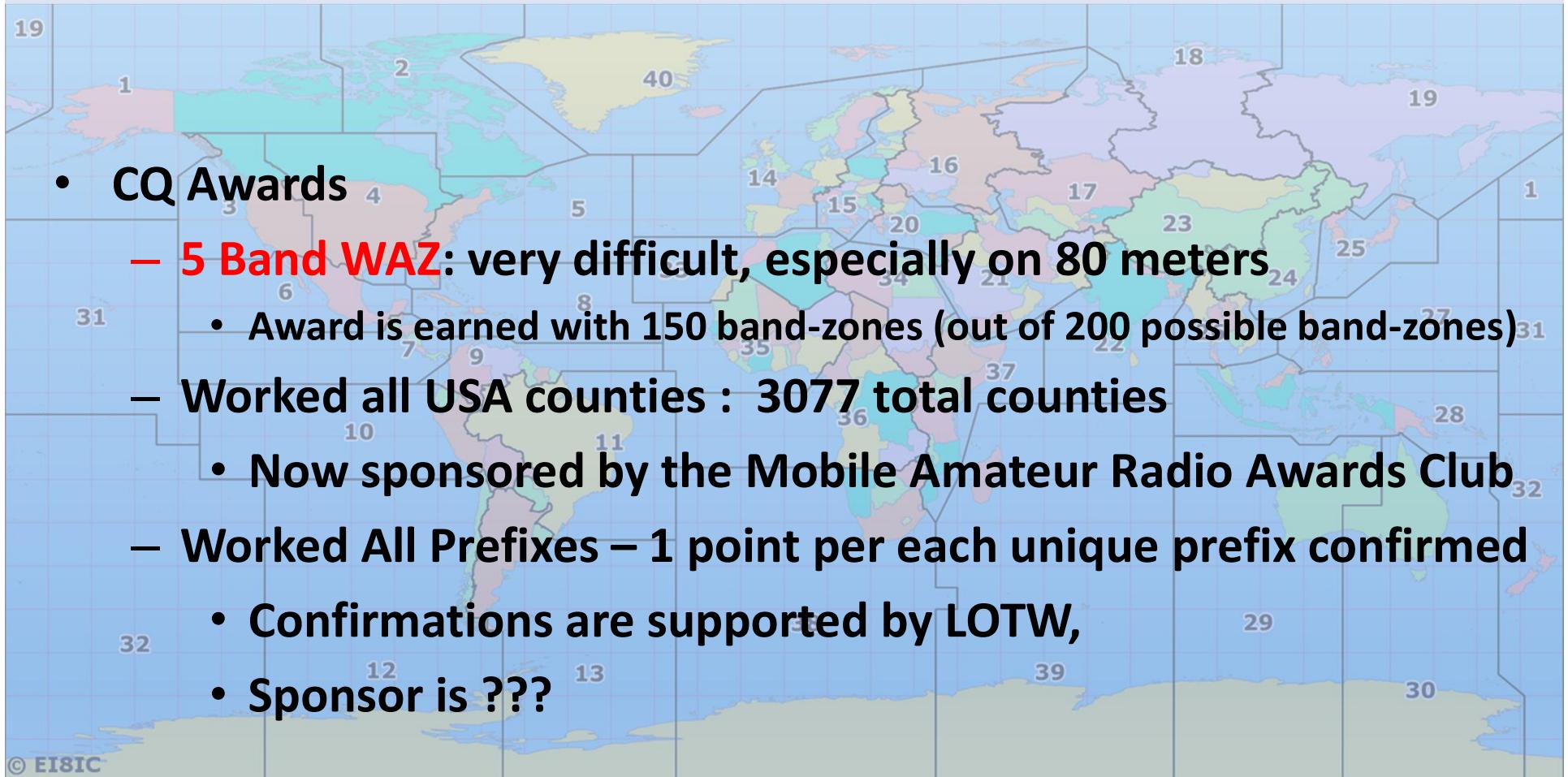
200 ZONE
ENDORSEMENT

DX EDITOR

EDITOR

7

Other Popular Awards, CQ



Other Awards Programs

- **Islands on the Air (IOTA)**, www.iota-world.org
 - Sponsored by Radio Society of Great Britain (RSGB)
 - Contact 100 islands on the 1000+ island list
- **Worked All Europe** – comprised of DXCC list plus additional entities
 - Bear I, Shetland I, United Nations Vienna, African Italy, European Turkey
- **QRZ.com**
 - Many awards can be earned and displayed on your QRZ page
- **eQSL**, www.eqsl.cc
 - Electronic confirmation and awards programs
- **Awards from other countries / additional resources:**
 - VA3RJ DX Awards, www.qsl.net/va3rj/awards

K3EA/2

YI1YY



GOALS AND STRATEGIES



العراق لهواة الملاسلكي
Iraqi Amateur Radio Society

The Mesopotamian Marshes - Southern Iraq

© OmarHussain



10

Goals

Choose practical goals based on:

- Equipment
 - Radios, amps and antennas
 - Digital mode capability
- Skill level
 - Operating skills (comes with experience & **listening**)
 - Split mode for DX
 - CW operation
- Interests

Start with “easier” awards: **WAC – WAS – DXCC (any band, any mode)**

Advanced Goals

NUMBER

AE-4-236-E

- Progress to:
 - WAS, DXCC: single band awards, single mode awards (CW, Phone, Digital)
 - Worked all Zone
 - mixed: any band, any mode
 - single mode awards, band-mode awards, single band awards (6 and 160 only)
 - WAS Triple Play:
 - Need 50 states on three modes: Phone, CW and Digital
 - LOTW confirmation only
 - 5 Band Awards: WAC, WAS, DXCC, WAZ (mixed mode)
 - 5 bands must be: 10, 15, 20, 40 and 80 meters

***** GREGORY A. MAURO *****

Single mode awards, band-mode awards, single band awards (only)

need 50 states on three modes: Phone, CW and Digital

BALTIMORE, MARYLAND

MAY 5, 1978

Land Aw 5 han

Gregory A. Moura
(Licensee)

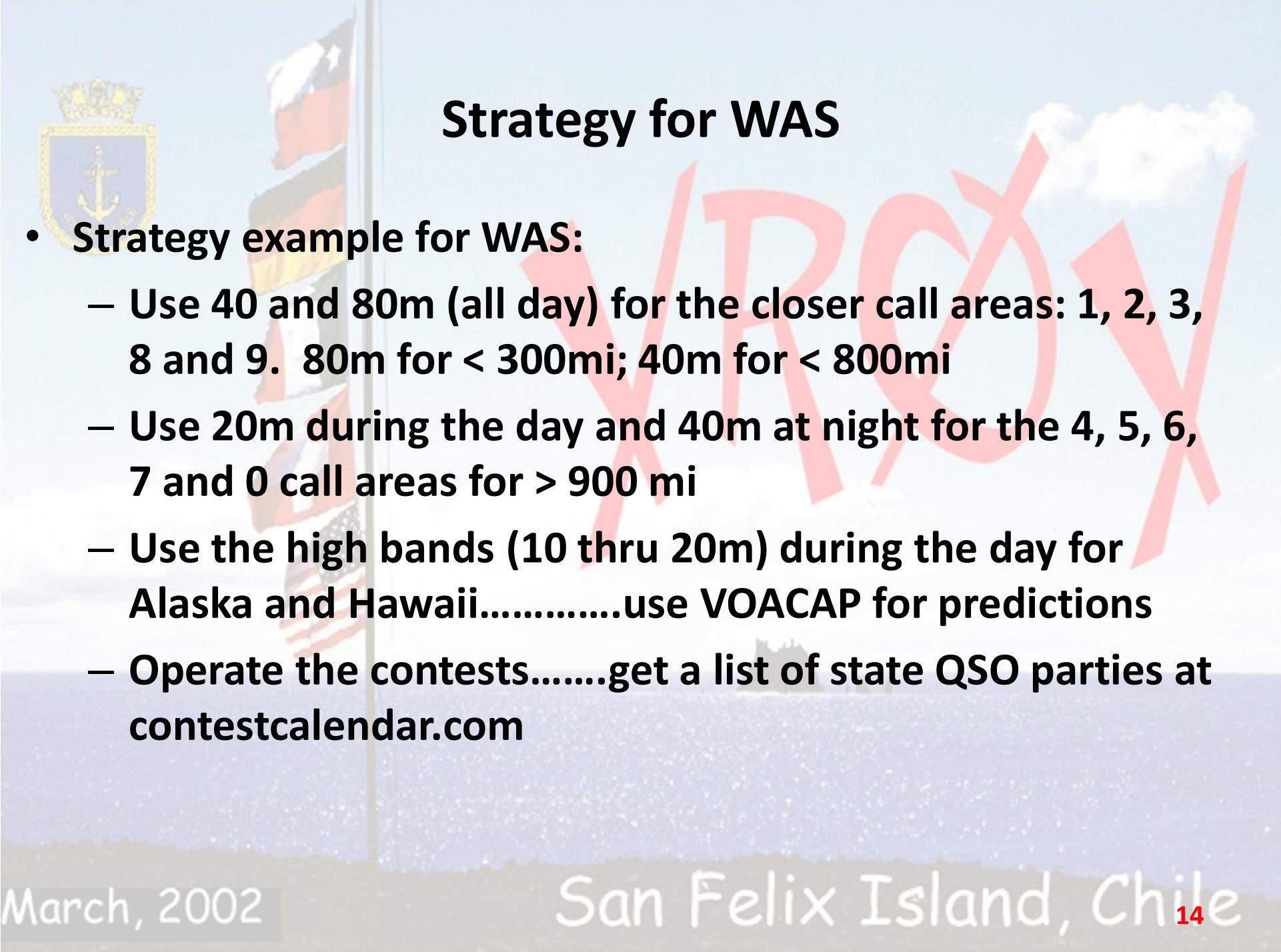
William O'Brien
(Secretary)

NOT VALID UNTIL SIGNED

Strategies

- Easy goals obtainable in short term
- Progressing.....
 - Understand propagation
 - In general, use the high bands during the day and the low bands at night for: NA, SA, EU and to some extent AF
 - Use all modes: SSB, CW and Digital (FT8)
 - Better antennas: directional (gain), low noise Rx
- Propagation:
 - Use [VOACAP](#) and determine the best propagation by bands and distance at different times of the day
 - Use the DX clusters, pick a mode and/or band.
 - i.e. dxwatch.com: filter for 20m, SSB

Understanding Propagation is key to success



Strategy for WAS

- **Strategy example for WAS:**
 - Use 40 and 80m (all day) for the closer call areas: 1, 2, 3, 8 and 9. 80m for < 300mi; 40m for < 800mi
 - Use 20m during the day and 40m at night for the 4, 5, 6, 7 and 0 call areas for > 900 mi
 - Use the high bands (10 thru 20m) during the day for Alaska and Hawaii.....use VOACAP for predictions
 - Operate the contests.....get a list of state QSO parties at contestcalendar.com

Strategies for DXCC / WAZ

XV9T

Vietnam

- 100 “easy” Countries and “easy” Zones can be had by:
 - Tuning around the bands /general rag chewing
 - Using the DX clusters / spotting networks to see who is on the air and is being spotted to your area
 - Participating in DX contests
 - Note: contest exchanges are short, see the rules of the particular contest.
 - In general, both stations acknowledging the other station’s call sign on the air is enough for to confirm a contact.
 - a signal report is usually part of the exchange....although everyone seems to be 59 ?!?
 - Subsequent QSL card or electronic confirmations need to include mode, band or frequency, time and date

Terrace rice fields

Sapa, Northern Vietnam

CQ zone: 26 ITU zone: 49

Grid Locator: OK33YV



Strategies for DXCC / WAZ (cont.)

- Use a log / logging program to keep track of countries, zones, states, etc:
 - Log: Call Sign / QSO info
 - QSL sent / uploaded to LOTW or other
 - Confirmation - QSL card received or Electronic Confirmation
- Also keep track of:
 - Verification – by card checker or electronic method
 - Application for award
 - Application approved, received award / endorsement
- Work first, Worry later
 - If you are not sure if you need a station for an award, or whether they are a legitimate operation.....WORK them and LOG them
 - Worry about the confirmation later
- Log everything: you may kick yourself for not logging something, then years later decide you want to pursue a specific award

Strategies for DXCC / WAZ (cont.)

Rare countries / DX-peditions

- Use VOACAP for propagation predictions
- Use online DX sources and live reporting systems (DX clusters, etc.) to predict and/or find activity.
 - DX cluster may indicate split frequency
 - Always verify the info on the cluster by listening
 - Sometimes the spotters get the call sign or frequency / split wrong
 - Use historical data on DX clusters to determine any operating patterns
- Use QRZ.com and online DX sources for info on duration of activation, bands, modes, specific frequencies, etc.
- The operation may also have a website, a Facebook page, blog, etc. with a band plan, FT8 info, QSL info, etc.

Rare countries / DX-peditions (cont.)

- A typical Dx-pedition will use split frequency in every mode
 - 99% of the time a rare DX station is listening 1 KHz up on CW and 5 KHz up on SSB.
 - Sometimes, a “band” of frequencies, e.g., “5 to 10 up”
 - Listen on both the DX’s Tx frequency and the split (Rx) frequency for the last station called and to determine any pattern in the DX’s listening frequency
- Occasionally the DX station will work by the numbers, by the continent, west coast, etc....
- Some stations may only operate on a specific band or mode
 - You will want to be frequency agile on all HF bands
 - You will want to be able to operate SSB, CW and Digital modes proficiently
 - FT8 is used for > 50% of all DX contacts

DON'T CALL IF YOU CAN'T COPY THE DX STATION !

Rare countries / DX-peditions (cont.)

3Y00 Bouvet Island

- Exchange is short - listen for the exact exchange.
 - Typical SSB exchange:
 - You calling the DX: Kilo Three Echo Alpha (use standard NATO phonetics)
 - DX: K3EA 59 (everybody is magically 59!)
 - You: 59, Thank you
 - DX: 73, QRZed, up 5
 - Typical CW exchange:
 - You calling the DX: K3EA
 - DX: K3EA 5NN (if the DX gets your call wrong....send, just your call sign, again)
 - You: 5NN TU
 - DX: TU UP or UP
- FT8 Notes:
 - You should always use split mode for FT8 (you will need rig control)
 - Learn how to call stations that are using Fox and Hound, SuperFox and MSHV

WA2TMF



AWARDS PROGRAM PROCESS

New Jersey, USA
Home of the Miss America Pageant

K8K

Award Program Process

- **CONFIRMATION** – Receive contact confirmation
 - QSL cards
 - Electronic Confirmations
 - Note: some stations will only send QSL cards and some will only use Electronic Confirmations (LOTW, etc)
- **VERIFICATION** – Verify confirmations through the award program's review procedure
 - QSL card check by program official / card checker
 - by mail, in person / ham fest
 - Electronic Verification
 - Combination of checked QSL cards and Electronic Verification
 - Log of contacts: in some cases it's the honor system
- **APPLICATION** – Apply your verified contacts to the award, along with the appropriate application form and fee



OC 2145

Confirmation Strategies

- **Method**

- Check QRZ.com for preferred QSL method
- Check online DX outlets:
 - Daily DX, OP DX Bulletin, IK3QAR.it, VA3RJ - www.qsl.net/va3rj/qsl_dbbase

- **LOTW – use “Find Call” to double check if station uses LOTW**

- Unsolicited confirmation – upload your contacts and get a match
- Solicited confirmation – Email, PayPal, OQRS (Clublog and others)
 - “paid for” confirmations typically include LOTW and a QSL card

- **QSL cards – (some DX stations will not use LOTW)**

- Required info: both call signs, date, time, band, mode & country
- Optional info: signal report, zone, state, grid square, county, mailing address
- Standard size is 3.5 x 5.5”
- Send your card with SASE (domestic) or SAE and \$5 (DX)
 - Two sizes of envelopes are needed
 - 4 ¾ x 6 ½” (A6), need International postage stamp for DX (currently \$1.70)
 - » Don’t use call signs in address for DX stations
 - 4 ¼ x 6 ¼” (A4), for your SASE/SAE
- Register with your call area incoming QSL bureau

TODD GANSEL
2453 RD 15 North
Worden, MT 59088
U.S.A.

MONTANA

AE7V

OMISS 5441
10-10 73588
FH 428

Ex: KC5YED

CONFIRMING QSO WITH	DATE			UTC	MHz	RST	MODE 2-WAY
	MONTH	DAY	YEAR				



PSE QSL TNX

YELLOWSTONE COUNTY
DN55wx • CQ 04 • ITU 07

Confirmation Strategies (cont.)

- Register with ClubLog
 - You can upload your log and view other station's logs
 - Good method to validate QSO's
 - Some DX-peditions use live logging and/or upload during the DX-pedition
 - You can use ClubLog's Online QSL Request System (OQRS)
- Register with eQSL
 - Some stations may only use eQSL
 - Can validate QSO's and message station
 - eQSL is good for WAZ
- A log or a logging program is important for keeping track of confirmed contacts
 - Record the required information for each contact
 - Keep track of QSLs sent / received
 - Other notes: QSL method, antenna used, power used, etc.
 - Most popular logging programs can automatically upload to the various electronic QSL systems

Amateur Radio Station QSL Verification

- Award programs will specify verification method(s) that can be used.
 - A combination of QSL cards and/or electronic verification can be used in some cases:
 - ARRL awards –cards, LOTW
 - WAZ – cards, LOTW , eQSL
 - Review the award website for acceptable verification methods
- Card checkers
 - Physical cards verified. In person or by mailing cards.
 - FYI: K3EA is an ARRL card checker
 - Used by ARRL, CQ, IOTA and other programs
 - Note: ARRL does not accept emailed/printed QSLs
- Electronic Verification
 - Used by most major award programs
 - LOTW is the most secure

FOR HELP WITH DXCC program: staratula@arrl.net

Application Process

Each program has a specific application process

- ARRL awards: WAS, DXCC and VUCC
 - LOTW can be used for both verification of electronic contacts and application of awards.
 - Verification of QSL cards, and an application, can be performed with
 - Paper DXCC Application & Record Sheet: <https://www.arrl.org/dxcc-application-forms> or,
 - Online DXCC Application: <https://www.arrl.org/online-dxcc-application>
 - Cards and application are checked by Field checkers or sent to ARRL HQ
 - After verification of cards, contacts are credited to your LOTW account
- WAZ:
 - LOTW and eQSL can be used for verification of electronic contacts.
 - Program manager is alerted when a “transaction” is made
 - Application is by separate form: N4BAA.com
 - Cards must be checked by Field Checkers or mailed to program mgr.

UZBEKISTAN

Z:17

ITU

QSL CARDS AND ELECTRONIC CONFIRMATIONS



British Overseas Territory **ST HELENA ISLAND** South Atlantic Ocean

CQ ZONE 36 - ITU ZONE 66 - WW LOC. IH74DB



QSL cards

- The Q code, QSL means “I acknowledge receipt”....
 - In this case, receipt of the contact
- QSL confirmation is considered the final courtesy of a contact
- QSL card exchange has been around since the beginning of ham radio
- Why exchange physical QSL cards?
 - Wallpaper: display cards in your shack
 - Create binders with clear plastic inserts for display
 - Submittal for awards programs
 - Some stations don't use LOTW



AF-022





Your QSL Card

FT4GL

- You gotta send them to get them!
- Suggested vendors:
 - KB3FIH
 - Gigaparts
 - www.radioqth.net/qslcards - create a custom one sided card
 - Standard contact form available
 - Include your own artwork as a background
 - Your artwork and any vendor that prints on card stock
 - www.gotprint.com/home.html

GLORIEUSES ISL.



AF:011

Additional QSL info / tips

- ARRL QSL bureau
 - Incoming bureau, by call area. Need to have stamps and envelopes on file
 - Outgoing bureau, need to be ARRL member. \$0.75 per oz., \$2 min.
 - Tends to be slow and most DX won't respond to bureau cards
- Online QSL Request System (OQRS)
 - Mostly useful for DX-peditions and rare DX countries
 - Facilitated through Club Log and other online outlets
 - Cards / LOTW confirmation can be ordered through the website
 - Payment through Paypal, usually \$3 - 5
- Keep an updated QRZ.com page
 - List a good email
 - Display your QSL methods: Direct, QSL manager, LOTW, eQSL, etc.

QSLs - Electronic Methods

- The electronic QSL systems allow you to Confirm, Verify and Apply for the desired awards.
- Popular Electronic QSL systems
 - Logbook of the World (LOTW)
 - BEST method of electronic confirmation
 - Run by ARRL, started in 2003
 - eQSL
 - Supports similar awards to ARRL
 - Less rigorous validation process....copy of scanned license
 - QRZ.com
 - QRZ.com online logbook supports the QRZ awards program
 - Available for any QRZ.com member
- Most popular logging programs have the capability to automatically upload (ADI) files to the above databases

“ADIF Master” is an excellent utility to view and edit ADI files

LOTW



Logbook of the World - LOTW

- ARRL awards and endorsements available for confirmation, verification and application:
 - DXCC, WAS, VUCC
- CQ awards available for confirmation and verification
 - WAZ, WPX
 - Application is done separately through CQ awards managers,
 - WAZ: <https://n4baa.com/cqwaz.html>
 - WPX: TBA
- LOTW Validation process
 - Postcard sent to FCC registered address with a password for registration
 - A utility program (Trusted QSL, TQSL) and a crypto key are installed on a single computer



Logbook of the World – LOTW (cont.)

- Confirmation / Verification
 - Each contact is matched with the other station's data and is confirmed/verified in the blind
 - No edits/deletions are allowed once uploaded
- TQSL Utility
 - Allows manual entry of log data
 - Allows upload of ADI files
- Other notes:
 - The LOTW database can be exported and used with logging programs and other electronic databases
 - Most logging programs have provision to upload to LOTW and other services
 - LOTW does not accept verification from other electronic QSL services
 - Any previous DXCC credits can be combined with the LOTW credits
 - LOTW is free, BUT..... U.S. hams must be a member of ARRL to apply for the awards

LOTW DXCC Status Page

Award Account
Menu

Account Status

Account Credits

Modify Account

Application

Application History

DXCC QSL Download

Your Logbook DXCC Account (W2ZQ - UNITED STATES OF AMERICA)

Account Status

DXCC Award	New LoTW QSLs	LoTW QSLs in Process	DXCC Credits Awarded	Total (All)	Total (Current)
Mixed *	17	0	257	274	272
CW *	11	0	200	211	210
Phone *	11	0	222	233	231
Digital *	31	0	153	184	184
160M	0	0	50	50	49
80M	0	0	106	106	105
40M	5	0	167	172	171
30M	31	0	34	65	65
20M	10	0	224	234	232
17M	20	0	90	110	110
15M	21	0	200	221	220
12M	51	0	68	119	119
10M	26	0	155	181	180
6M	6	0	19	25	25
23CM	0	0	26	26	26
Challenge *	170	0	1106	---	1276
5-Band *	---	---	---	---	---

* = Award has been issued

[View Award Credit Matrix](#)

This account includes credits for the following:

W2ZQ - UNITED STATES OF AMERICA

This account is linked with DXCC record:

DVRA, W2ZQ

Notes

- Click on the **Awards** item in the menu at the top
- You can click on the links in the Account Status
- If you want to merge other DXCC award account [Modify Account](#).
- When you are ready to apply your LoTW credits
- To view the present and past applications you have made
- For an ADIF download with the details of all QSLs

FOR HELP WITH LOTW: lotw-help@arrl.org

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THE EXECUTIVE COMMITTEE OF THE
DELAWARE VALLEY RADIO ASSOCIATION

OPERATING

GREG MAURO & K3EA

ACCEPTANCE INTO THE WALTER CUPPER CLANS CLUB
WITH ALL PRIVILEGES THEREBY ACCORDING
IN WITNESS WHEREOF, THE DELAWARE VALLEY RADIO ASSOCIATION AUTHORIZED COMMITTEE
ON THIS TWELFTH DAY OF MAY, TWO THOUSAND NINETEEN

AIDS



DOM DI CLEMENTI, N3DD
STATION DIRECTOR



MODES OF OPERATION

DIGITAL	<input type="checkbox"/>
PHONE	<input checked="" type="checkbox"/>
CW	<input type="checkbox"/>

Operating Tips

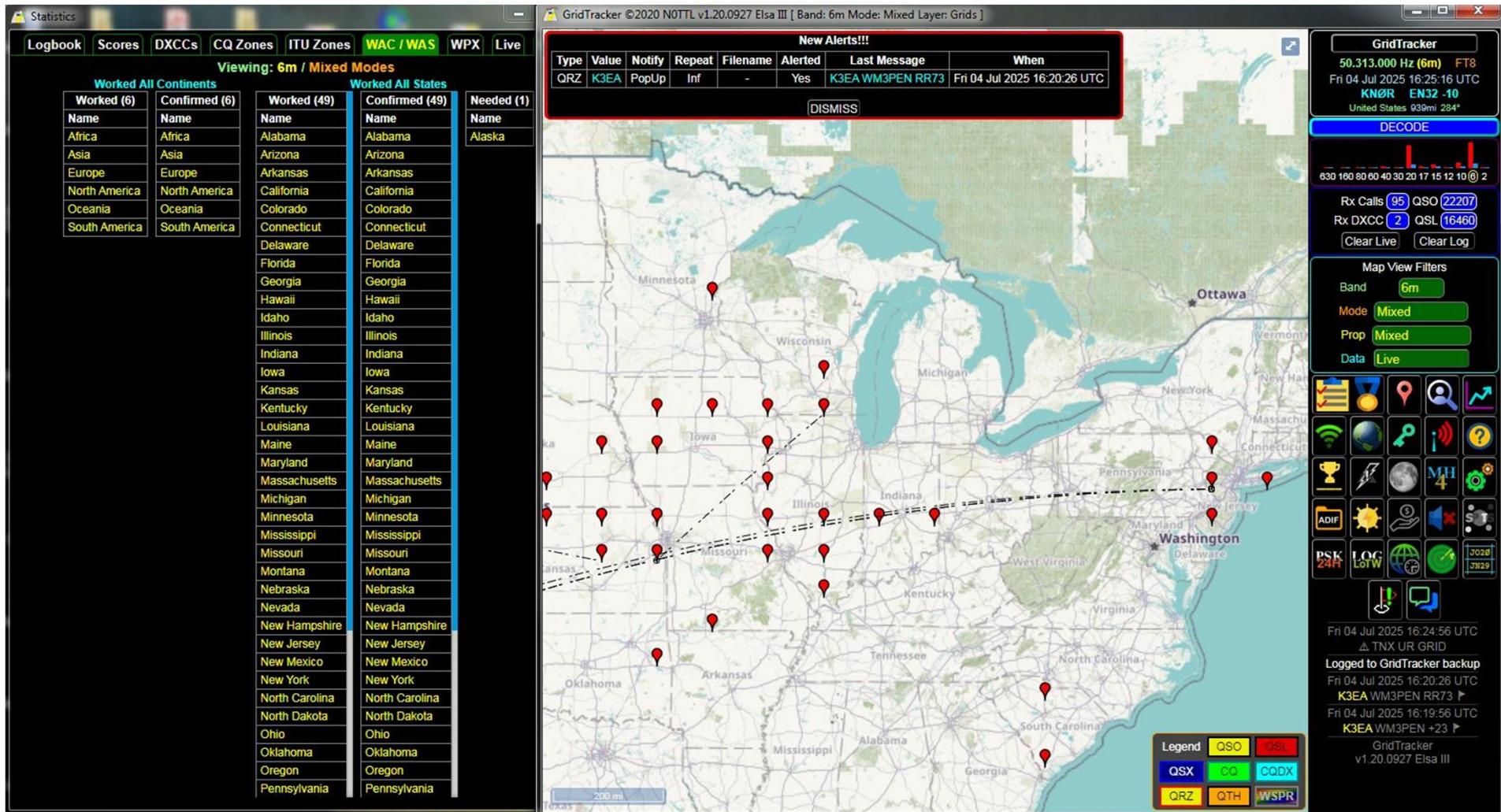
- Check into specialized nets:
 - WAS, County Hunters, IOTA, SOTA
 - DX nets
- Operate Contests
 - State QSO parties
 - DX contests, for that needed country or Zone
 - Specialized contests: RTTY, FT8, 10m, 160m, etc.
 - **contestcalendar.com** for a comprehensive list of upcoming contests
 - Contests seem to magically open up the bands!
- Check the DX websites for upcoming country activations
 - www.dx-world.net, <https://ng3k.com/Misc/adxo.html>,
<https://dxnews.com/>, www.425dxn.org, etc.

Operating Aids

- **Track your country, state, zones, etc.**
 - Most of the popular logging programs track award status
 - Grid Tracker (useful for VUCC grid squares and other awards)
- **Predictive Tools: VOACAP, Hepburn maps**
- **Maps**
 - DXCC / Zone map
 - Grid square
 - WAS map
- **DX spotting clusters**
 - dxwatch, DX Summit and others
 - HamClock
 - Ham Alert
 - Some logging programs import data from the clusters and alert you to a needed country, zone, state, etc.
- **Reverse Beacon Network and PSK Reporter**
 - View your signal as reported by receiving stations
 - Helps to determine your ability to make contact into the desired area

Grid Tracker

<https://gridtracker.org/>



Screen shot shows

- Live activity on 6m and
- 6m WAC and WAS status

VOACAP

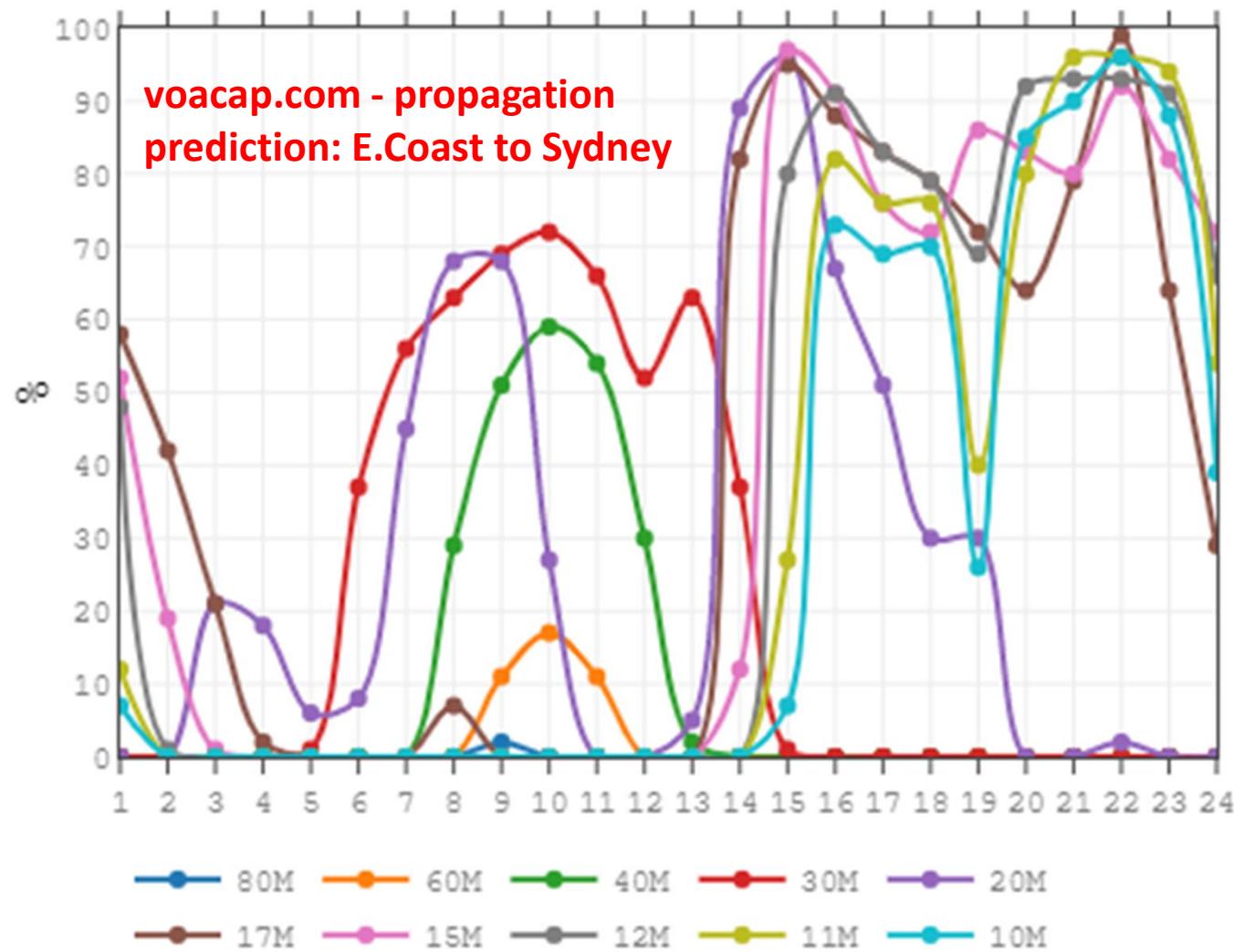
<https://www.voacap.com/hf>

VOACAP Online for Ham Radio – 22:23:48 UTC (05:23 PM)

Select TX QTH: << Select a location >> or set Grid: FN20nf or Latitude: 40.2260 Longitude: -74.8421
Select RX QTH: << Select a location >> or set Grid: QG63tv or Latitude: -26.1160 Longitude: 153.6334



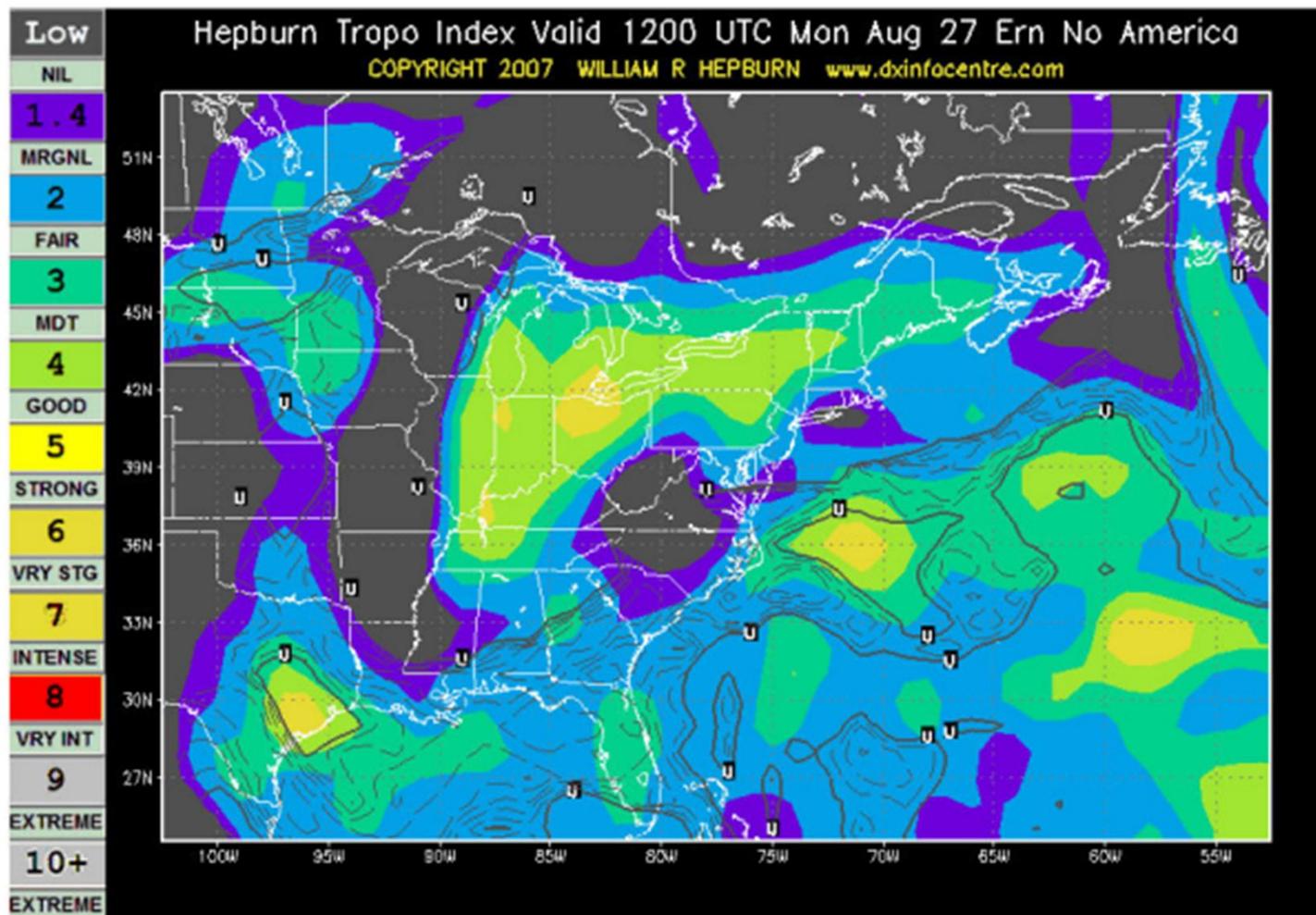
Propagation prediction from E. Coast to Sydney



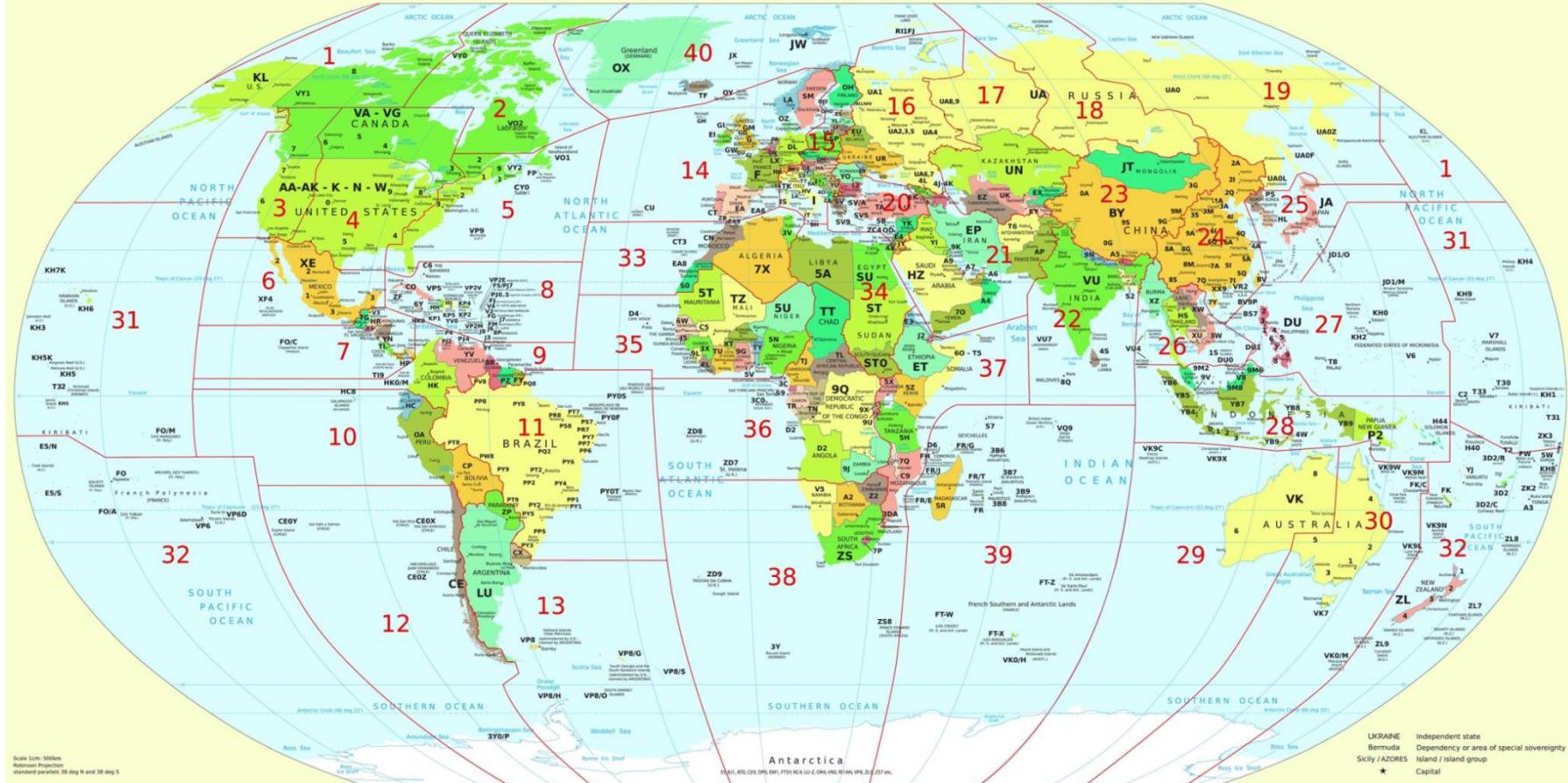
- Vertical axis is probability of success (reliability %)
- Horizontal axis is time in UTC
- Graph lines are color coded by band

Hepburn Maps for tropospheric VHF/UHF ducting

www.dxinfocentre.com/tropo.html

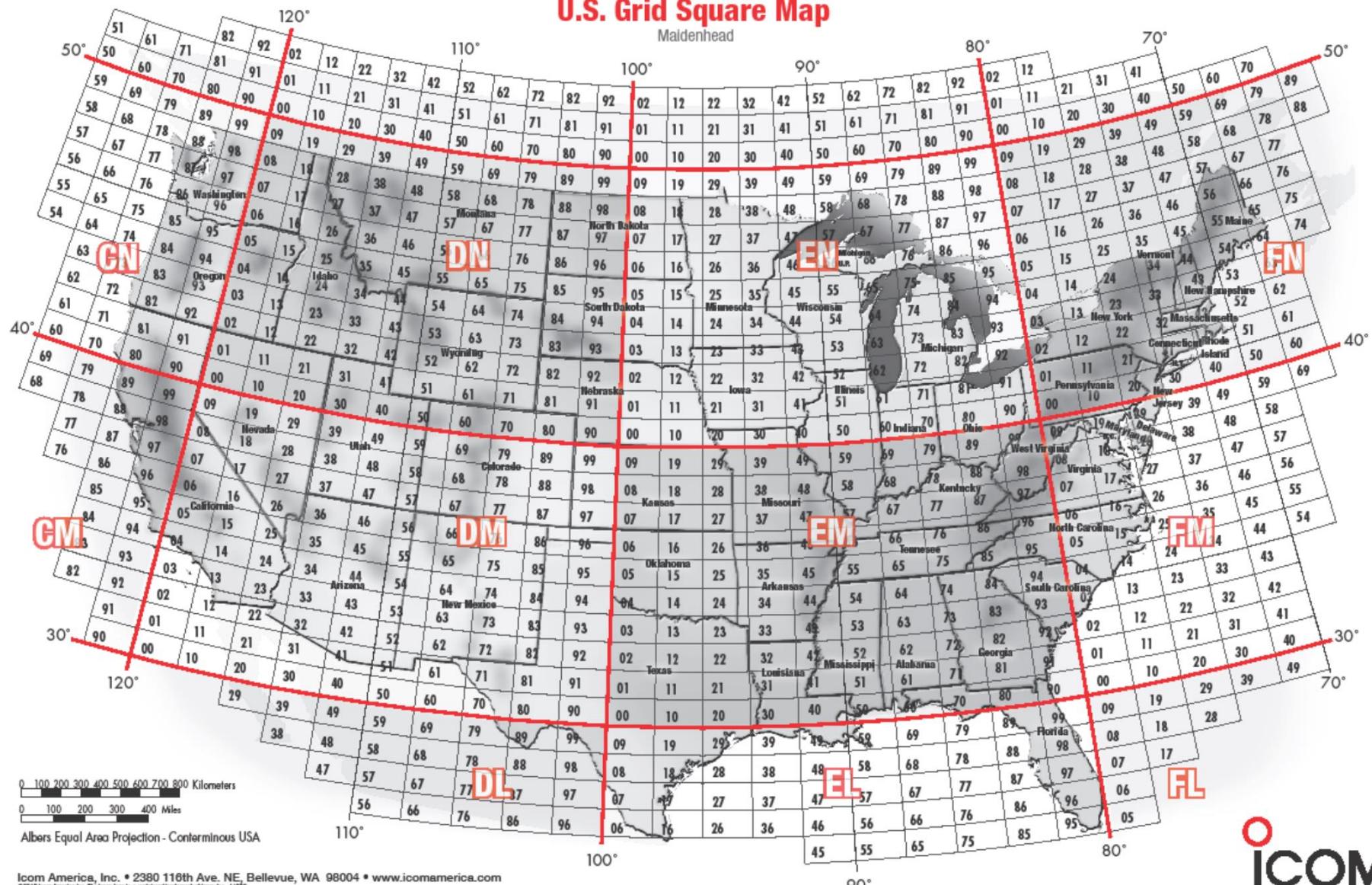


AMATEUR RADIO WORLD MAP AND DXCC COUNTRY LIST



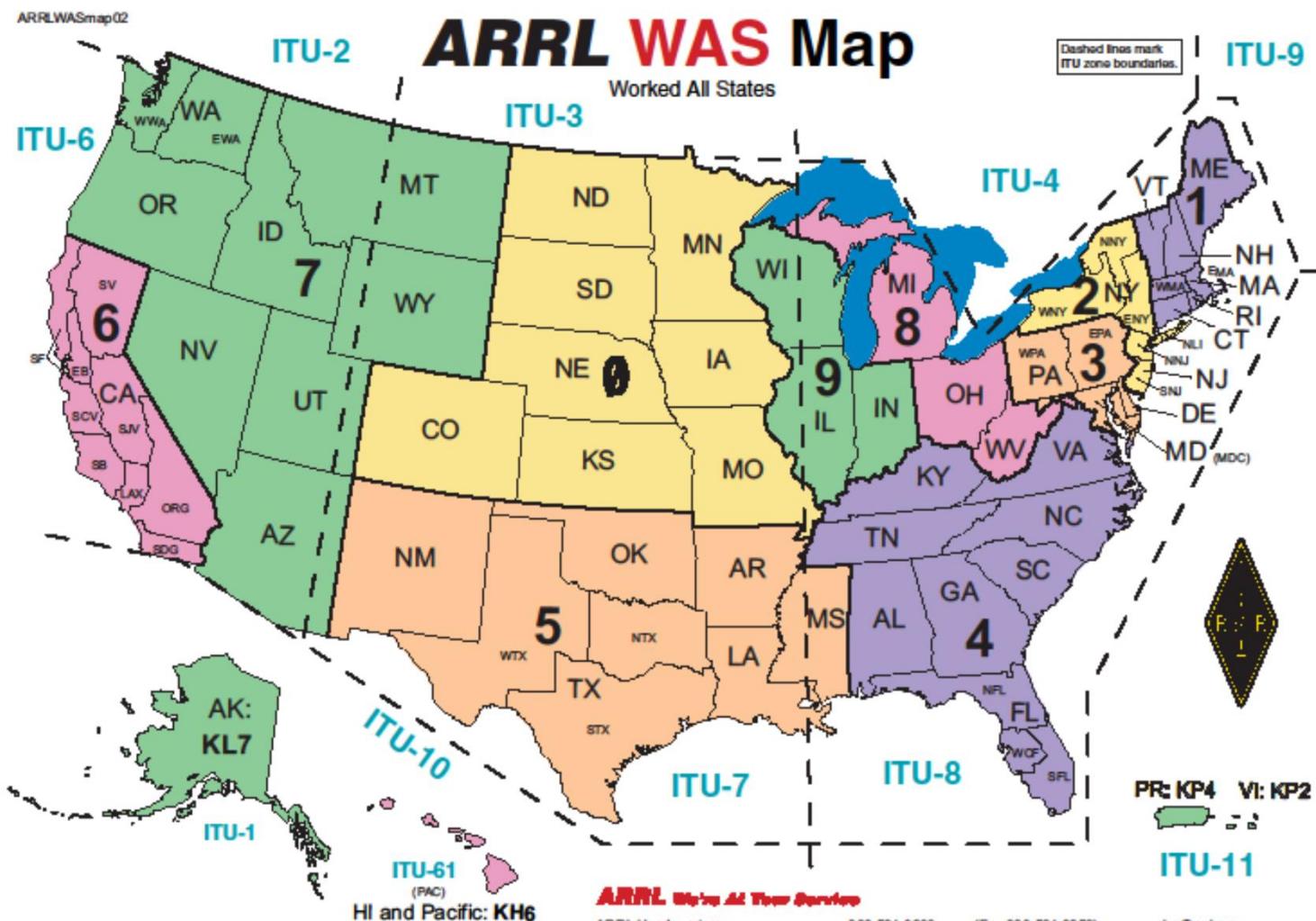
Prefix	Entity	Cont.	CQ	ITU	Prefix	Entity	Cont.	CQ	ITU	Prefix	Entity	Cont.	CQ	ITU	Prefix	Entity	Cont.	CQ	ITU	Prefix	Entity	Cont.	CQ	ITU	Prefix	Entity	Cont.	CQ	ITU	
1A	Rock Is., Outer of Malta	ES	26	10	1	St. Lucia	CU	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
1B	Spiral Is.	ES	26	10	1	Andorra	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2A	Malta	ES	26	10	1	Portugal	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2B	Malta	ES	26	10	1	Spain	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2C	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2D	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2E	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2F	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2G	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2H	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2I	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2J	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2K	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2L	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2M	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2N	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2O	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2P	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2Q	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2R	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2S	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2T	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2U	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2V	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2W	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2X	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2Y	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
2Z	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3A	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3B	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3C	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3D	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3E	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3F	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3G	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3H	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3I	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3J	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3K	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3L	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3M	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3N	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3O	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3P	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3Q	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3R	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3S	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3T	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2	VA2	EF	3	AA-AK-K-N-W	3	AA-AK-K-N-W	EF	4	UNITED STATES	4	5	EF
3U	Malta	ES	26	10	1	Malta	ES	14	27	EF	2	VA - VG	CANADA	5	4	2	VA2	2</												

U.S. Grid Square Map



[Click here to download the map](#):

[https://www.icomamerica.com/lineup/amateur/Band Plan Map/](https://www.icomamerica.com/lineup/amateur/Band%20Plan%20Map/)



ARRL The national association for
AMATEUR RADIO

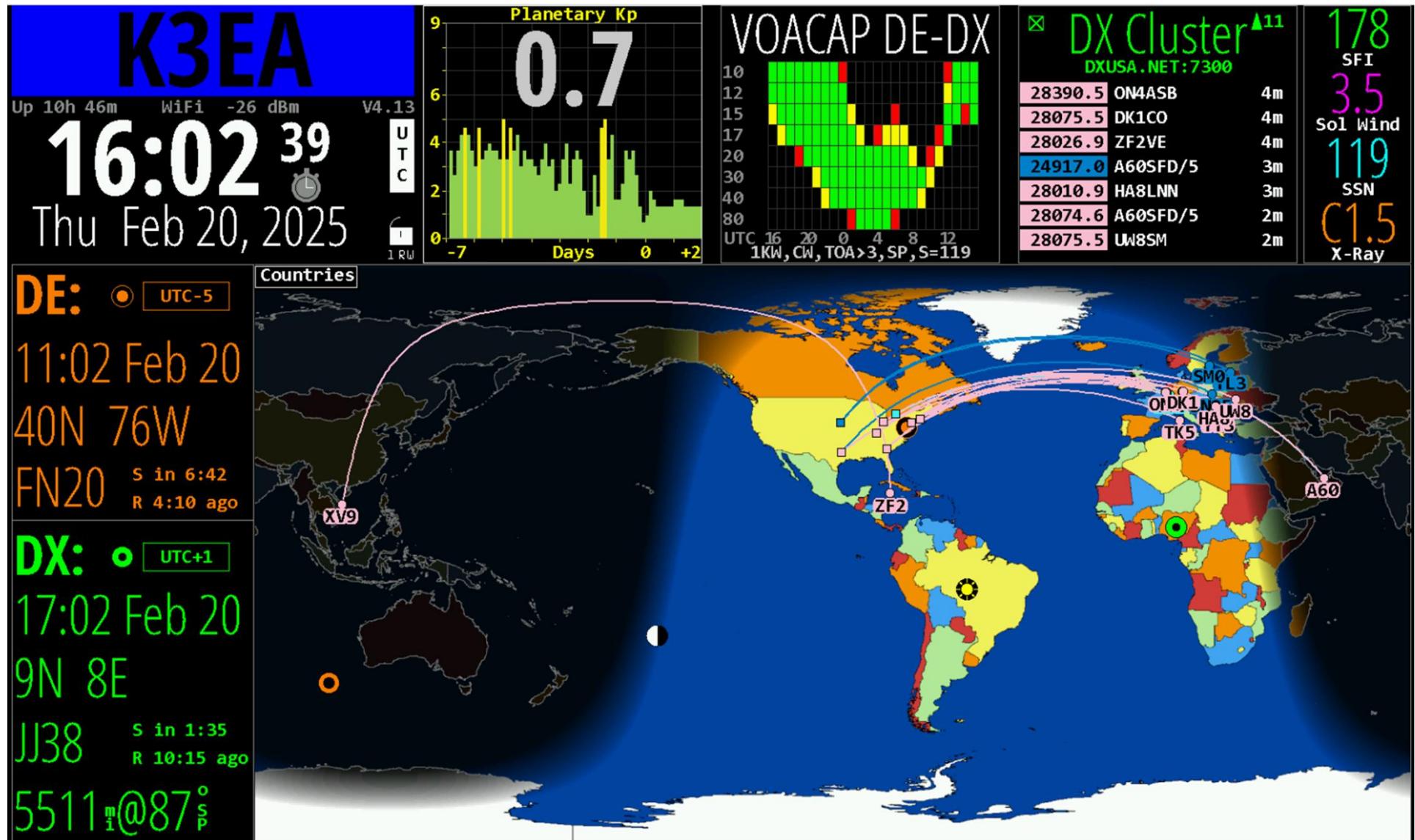
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<https://www.dxwatch.com>
filtered for Africa, Oceania, Asia - spotted by N. American stations

The image displays three separate browser windows side-by-side, each showing a list of amateur radio contacts from a specific continent as spotted by North American stations. The windows are titled 'dx continent: AF - Africa / de continent: NA -' (left), 'dx continent: OC - Oceania / de continent: NA -' (middle), and 'dx continent: AS - Asia / de continent: NA - North America' (right). Each window has a 'rows to show:' dropdown set to 50. The contact lists include columns for de (station), dx (call sign), freq (frequency), obs (operator), and time (time of contact). The middle window (OC) shows a message: 'cancel filter selection / send a spot / search spot by callsign' and 'show/hide my last filters'. The right window (AS) shows a message: 'To get future Google Chrome updates, you'll need Windows 10 or later. Th... Learn more'.

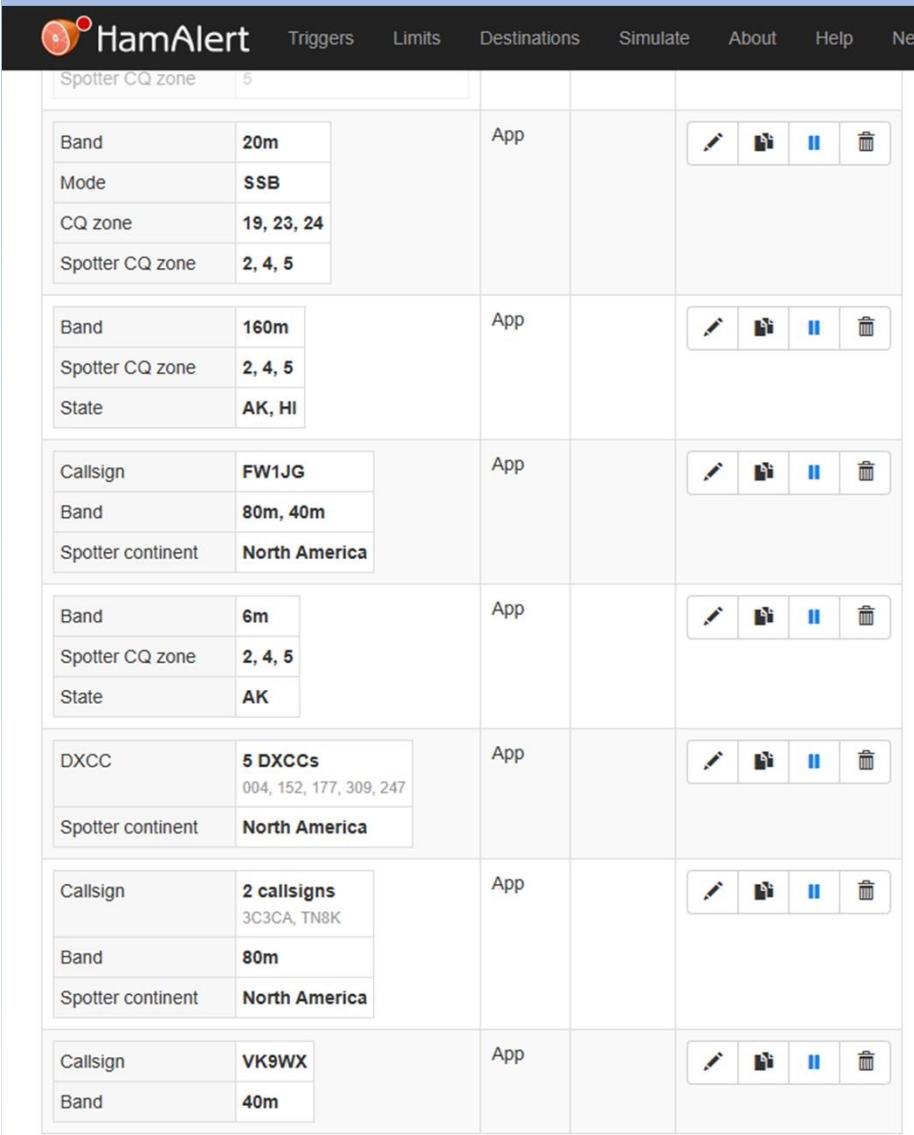
filters are versatile: band(s), modes(s), location, etc

Hamclock <https://inovato.com/>



DX cluster is filtered - only stations rx'd outside of N America by Eastern US stations

<https://hamalert.org> online app



Band	20m
Mode	SSB
CQ zone	19, 23, 24
Spotter CQ zone	2, 4, 5

Band	160m
Spotter CQ zone	2, 4, 5
State	AK, HI

Callsign	FW1JG
Band	80m, 40m
Spotter continent	North America

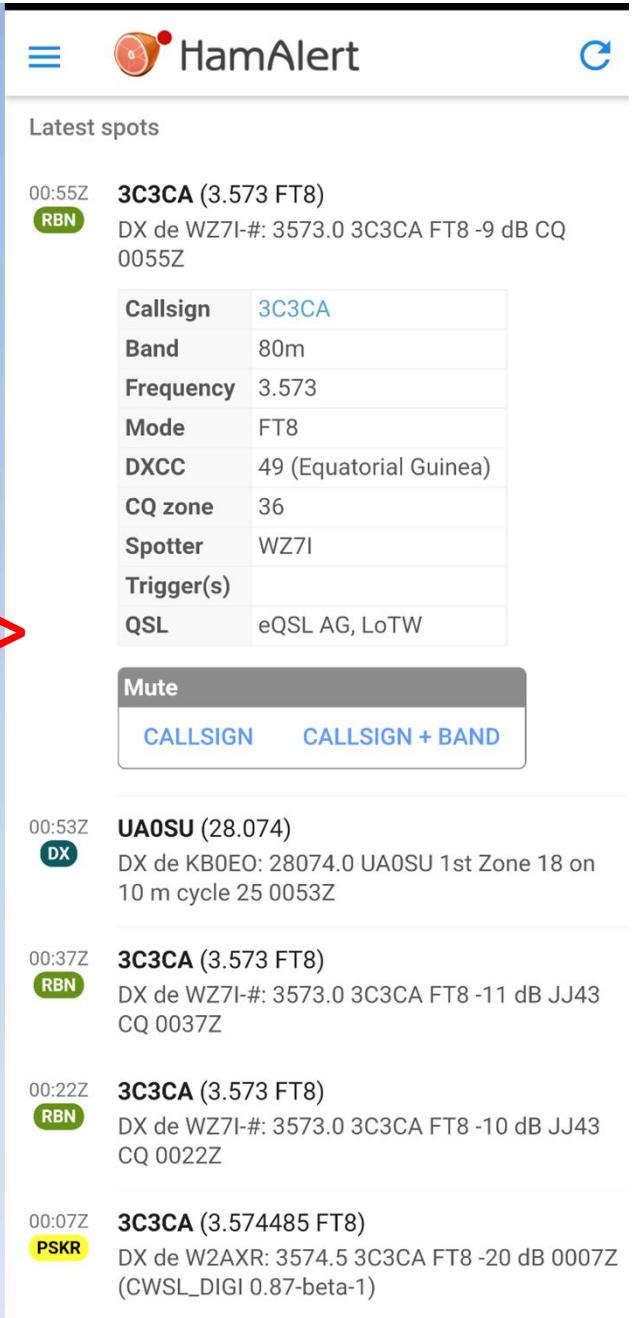
Band	6m
Spotter CQ zone	2, 4, 5
State	AK

DXCC	5 DXCCs 004, 152, 177, 309, 247
Spotter continent	North America

Callsign	2 callsigns 3C3CA, TN8K
Band	80m
Spotter continent	North America

Callsign	VK9WX
Band	40m

setup menu



Latest spots

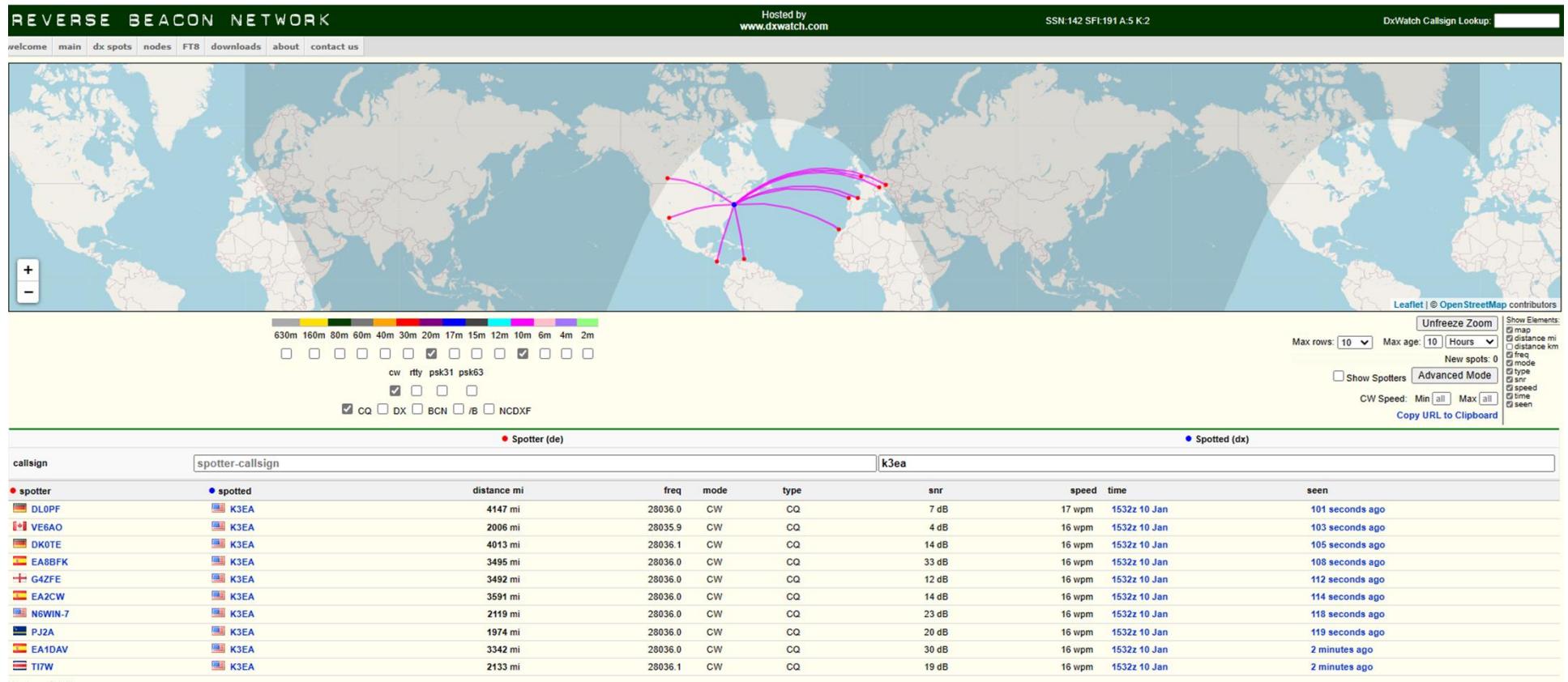
00:55Z	3C3CA (3.573 FT8) RBN DX de WZ7I-#: 3573.0 3C3CA FT8 -9 dB CQ 0055Z
00:53Z	UA0SU (28.074) DX DX de KB0EO: 28074.0 UA0SU 1st Zone 18 on 10 m cycle 25 0053Z
00:37Z	3C3CA (3.573 FT8) RBN DX de WZ7I-#: 3573.0 3C3CA FT8 -11 dB JJ43 CQ 0037Z
00:22Z	3C3CA (3.573 FT8) RBN DX de WZ7I-#: 3573.0 3C3CA FT8 -10 dB JJ43 CQ 0022Z
00:07Z	3C3CA (3.574485 FT8) PSKR DX de W2AXR: 3574.5 3C3CA FT8 -20 dB 0007Z (CWSL_DIGI 0.87-beta-1)

Mute

CALLSIGN CALLSIGN + BAND

Reverse Beacon Network (RBN)

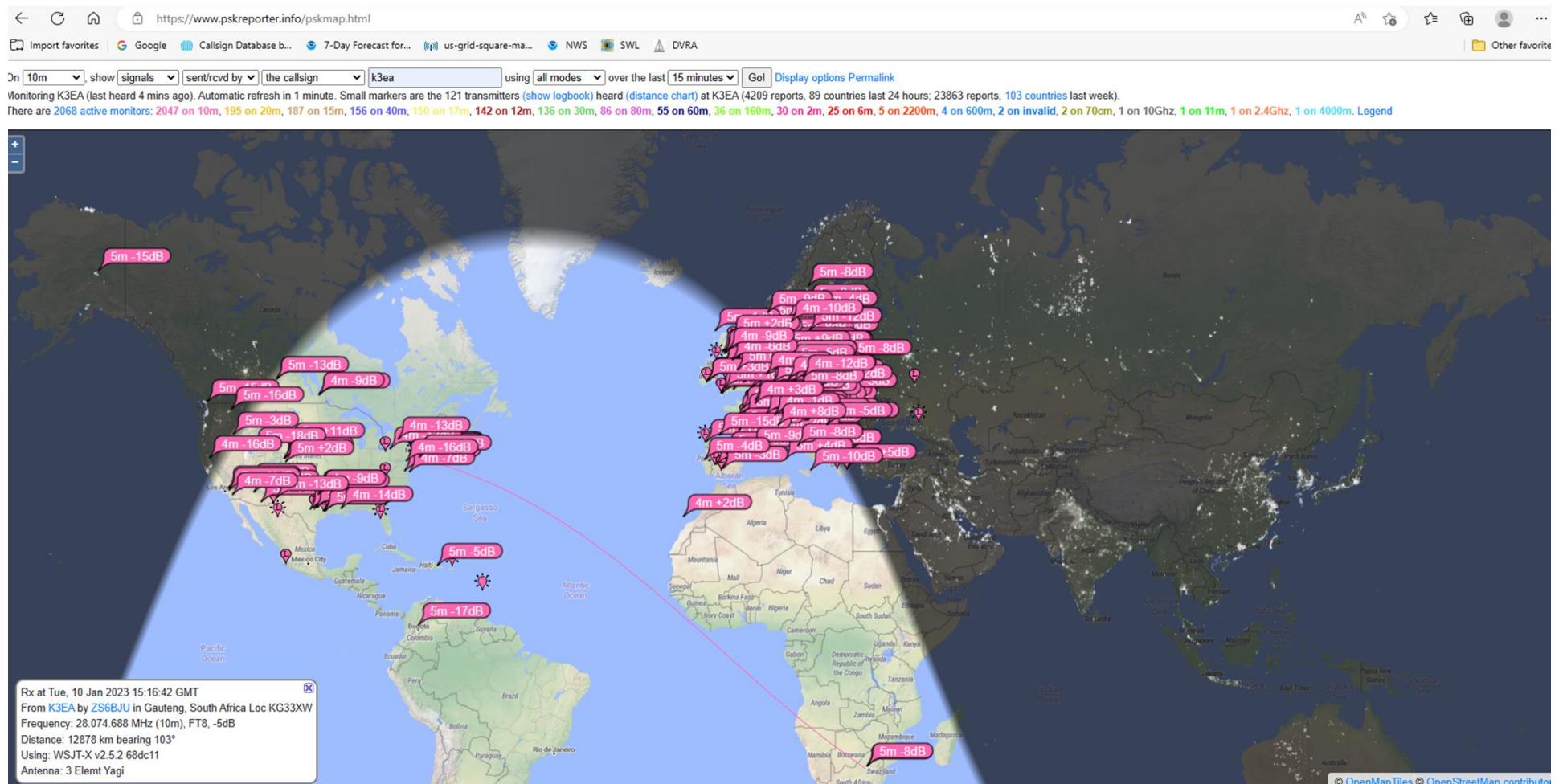
<https://reversebeacon.net/>



- Called CQ CQ de K3EA 2x on 10m, around 1030am EST
- Received 10 “hits”: graphical and data info

PSK reporter

<https://pskreporter.info/pskmap.html>



Stations w /time and sig reports that decoded K3EA after 9 transmissions for QSO with Greece, 10m FT8

Resources

- Here To There: Radio Wave Propagation, ARRL, 1st edition, 2023
- Get on the Air with HF Digital, Steve Ford, WB8IMY, 3rd edition, 2022
- Ham Radio DX: A Complete Guide, Lucas Ford, W6AER, 1st edition, 2022
- The Complete DX'er, Bob Locher, W9KNI, 3rd edition, 2003
 - A little dated, but good info on operating techniques

DX Code of Conduct

- I will listen, and listen, and then listen again before calling.
- I will only call if I can copy the DX station properly.
- I will not trust the DX cluster and will be sure of the DX station's call sign before calling.
- I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.
- I will wait for the DX station to end a contact before I call.
- I will always send my full call sign.
- I will call and then listen for a reasonable interval. I will not call continuously.
- I will not transmit when the DX operator calls another call sign, not mine.
- I will not transmit when the DX operator queries a call sign not like mine.
- I will not transmit when the DX station requests geographic areas other than mine.
- When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.
- I will be thankful if and when I do make a contact.
- I will respect my fellow hams and conduct myself so as to earn their respect.

QSLs and AWARDS

- Motivation and Goals
 - Wallpaper: cards and certificates
 - Bragging rights!
 - Learn new modes, work new bands
 - Learn to operate your equipment more proficiently
 - Have Fun
- My current goals:
 - 6m: DXCC, need 7 more “countries”; WAS, need Alaska
 - WAZ: need zone 19 on CW and 20m SSB
 - DXCC Honor Roll: need 6 more “countries”
 - DXCC Challenge 2500 points: need 231 more band-countries
- FIN.....questions??