

A DX and Contest-minded Amateur Radio Club serving the California coast north of the Golden Gate Bridge

#### VOLUME 34

#### NUMBER 3

#### **MARCH 2013**

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# Visit our Web Site at http://www.redxa.com/

## **MEETING ANNOUNCEMENT**

Wednesday, March 13, 2013 at Boulevard Cafe & Grill, Petaluma. If you need directions, please call one of the club officers.

6 pm — Social Hour in the Lounge

- 7 pm Dinner and Meeting
- 8 pm Program

**PROGRAM:** Our Program for the evening will be by Mark Aaker, K6UFO and his program focuses on QRP DXing and Contesting.

## **REDXA President's Report**

We all enjoyed last month's presentation by Alan, K6SRZ on his experience at 3D2C Conway Reef. I apologize for the audio difficulties during Alan's video, hopefully our new venue won't have these issues as the meeting room is private and quiet. They have a large, mounted flat screen TV for presentations and they have internet connectivity.

Speaking of the new venue, The Boulevard Café and Grill is very pleased to have us and I've worked with him on the menu and format. We will once again be able to choose our entrée and pay for our meal upfront. Our choice of entrées is Salmon, Steak, Chicken or Vegetarian. Entrees include a vegetable and a choice of potato or fries. The meal includes a drink and a scoop of Ice cream for dessert. The price is \$19.00 per person, which includes tax. Additionally, we are allowed to bring our own wine without a corkage fee. They also serve beer, wine and margaritas.

This month our speaker is Mark Aaker, K6UFO and his program

#### focuses on QRP DXing and Contesting.

In April we have noted antenna guru N6BV, Dean Straw with a presentation on Big gun vs. Little gun stations.

In May, we have Rockwell Schrock, WW1X and his program on RemoteHamRadio.com. It's the easiest way to get on the air from anywhere! Operate a real radio that remotely controls contest-class stations from anywhere in the world. He has combined the latest remote radio and Web technologies to create an unparalleled experience that has to be heard to be believed. Come see this presentation to learn more about how it works and for a live demonstration.

I hope everyone is getting a chance to work some of the DX on the bands. I haven't had many opportunities to get on the air from my home station or mobile for that matter as my truck has been sidelined with some much needed maintenance. I recently got my truck back on the road and decided to drive into work. I thoroughly enjoy working DX during the morning and evening commutes.

I have an Icom 706, AH4 auto tuner and an 8' stainless steel whip installed in the truck. Timing can be everything while mobile, certain areas of the commute are better or worse for QRN. Over the years you locate areas of high noise or even leveraging sweet spots to your advantage. The PGE substations at the intersections of HWY 37/HWY 101 and Adobe Rd and Frates Rd. are always 20+ over QRN, along with numerous other noise generators along the way. On the other hand, getting a call in at the apex of the HWY 37 or HWY 101 bridges as you cross the Petaluma river can get a boost of 3-5 S units.

One particular morning TX5K, Clipperton Island was on 15 SSB working mainly EU and some stateside. I tried and tried to break the pileup to no avail. Frustrated, I QSY'd to 75 meters and checked in with the Marin guys around 8:15 AM and chatted with W6FQS in Chico and W6UDS and gang for a while. I'm always amazed at how well the short whip plays on 75 meters. This setup actually plays well on all bands and is as easy as pressing the Tune button to QSY from 80M through 6M. The majority of my countries, at least half, are actually on 40 meter CW during the morning the commute.

I was just about at work on this particular morning, so I checked for the boys on Clipperton one last time, 15 SSB was fading for me. I did a quick spin on 10 meters and found them on CW. As I carefully navigated the commute hour traffic, I put the rig in split, up 5 and sent my call using the up/down buttons on the top of Mic as my paddle. Much to my amazement I worked him on the first call. Chalk up a new one for me in the mobile, that's #77. I have a ways to go before I catch San, K7PIB on the REDXA Honor Roll.

On the way home during the evening commute I snagged my 78th new entity, working JT1CO in Mongolia on 17M SSB. I also logged TX5K on 15M CW and SSB. It was a good day of DXing from the truck.

The Visalia DX convention is just around the corner, April 19-21 and REDXA always has a great presence at this annual ham radio gathering. I'm looking forward to the new venue, at the downtown Visalia Convention center. Online registration ends April 10th and mail-in registrations must be post-marked on or before April 5th. If you want a convention Polo shirt your order must be received by March 22nd.

The Northern California Contest Club (NCCC) will once again sponsor a two-track, Basic and Advanced Contesting Seminar called "Contest Academy". This 4-hour Seminar will take place on Friday afternoon, April 19, 2013 from 1:00-5:00 pm. Registration for this event is separate from the main convention registration. Further information can be found online at www.dxconvention.com; go to the Contest Academy page.

DX University and the Northern California DX Club (NCDXC) will co-sponsor a two-track DX Seminar called "DX Academy". This 4-hour Seminar will take place on Friday morning, April 19, 2013 from 8:00 am to 12:00 noon. Registration for this event is separate from the main convention registration. Further information can be found online at the DX Academy page.

We'll need someone from our club to step-up and organize the early banquet seating, so REDXA members can sit together. To reserve a seat at the banquet, you must have pre-registered for the Conference + Meals.

I look forward to seeing you all at the meeting next week.

# BOARD OF DIRECTORS MEETING FEBRUARY 2013

by Rick, N6GY

A meeting was held at 6:00 p.m. at Cattlemens Restaurant in Petaluma with 7 directors present. Several housekeeping issues were discussed and decided on. Plans were discussed about future Board responsibilities. The meeting was adjourned at 6:30 p.m.

# **FEBRUARY MEETING MINUTES** by Rick, N6GY

President Jim K6JS called the meeting to order at 08:10 pm, February 13th 2013 at the Cattlemens Restaurant in Petaluma. There were 25 members and 6 guests in attendance.

Jim had the guests introduce themselves. The President of the rival MOTHERLODE DX CLUB, Bob Hess W1RH was introduced and was goodnaturedly booed! Jim K6JS commented that Bob had taken the trouble to swing by the "Twisted Oak Winery" and picked several cases of wine for the NCCC Club, before coming to our meeting. Further several members of our Club would be getting some of those bottles. Bob was then exuberantly cheered!

Jim asked for a motion to accept the January Meeting minutes and the Treasurer's report as published in the January "SUNSPOTS". The motion was made, seconded, and voted for.

He then said he was authorizing the cost of the CQP Plaque as it was our clubs turn to pay for it.

He then talked a little about our "SUNSPOTS" editor Steve Bertsch K6SAB who has been the editor for 17 years. He turned the floor over to

Chuck N6OJ.

Chuck felt that the Club should help out Steve with his antenna problems. He has apparently been off the air for a while, and because of his medical condition, was unable to rectify it. One suggestion was for the club to buy a HEX BEAM and rotor for him, and have club members put it up. Speculation was the entire cost would be around 600 dollars. He thought we might forgo the annual contribution to the DX Foundation, and instead use the money for Steve. Rich W6UDS suggested that Steve was very deserving, and maybe we could pass the hat at a couple of meetings to come up with the money. Bill KH6GJV suggested seeing what we could raise before making any final decisions.

Jim K6JS agreed and the hat (actually a bread basket from the dinner) was passed. The members dug deep into their wallets and came up with \$352.

Jim stated that the joint meeting with the MOTHER LOAD CLUB and the NORTHERN CALIFORNIA CONTEST CLUB had hit a snag in scheduling and might not happen until maybe July.

Chuck N6OJ then suggested a venue change to the BOULEVARD CAFÉ. They currently don't do dinners, but would open up for us from 6 to 10 p.m. to provide the club with dinners, inexpensively priced, and a much quieter meeting room. They do not have a full bar, but have a beer and wine license, and, would not charge a corkage fee to decant members wine bottles should they bring them. The price for dinner (choice of three entrees), dessert, and coffee or tea would be reasonable. Less than \$20. A hand vote was taken, and the majority was willing to give it a try. Chuck told the REDXA Board that it would be up to them to contact the owner, Daniel, and take it from there.

Chuck then asked the Club if they might be interested in doing a "swap meet" venue? Jim K6JS stated that he would take it up with the Board.

The 50-50 raffle took in \$132 and was won by a guest Jack K6VXI who took home \$66.

followed by a movie on the 3D2C DXpedition to Conway Reef, presented by Alan K6SRZ, who was a participant. . He offered explanations and comments during the presentation and answered questions at the end.

The meeting was adjourned at 9:15 p.m.

### **Treasurer Report**

by Saraj, KU6F

#### **REDXA TREASURER'S REPORT**

1	\$3,302.86
20.00	
67.00	
475.00	
	562.00
10.86 23.37	
	(34.23)
	\$3,830.63
	20.00 67.00 475.00 10.86

See you at the new location March meeting!

# Monthly San Francisco Section News Summary

Here is the link for the News Summary: http://www.arrl.org/sections/?sect=SF

# Contesting

by Jim, K6JS

K6SRZ tops the list for REDXA members in the ARRL DX CW contest. Alan racked up 1165 QSO's, 364 Mults for 1,236,168 points. K6RIM was his closest competitor with 714 QSO's, 317 Mults and 679,014 points. N6ZFO made 520 QSO's, 94 Mults and 145,080 points running low power and a single 15 Meter band effort.

In the CQ WPX RTTY contest, Ron, N6IE's remote station is playing very well as he tops the list of members with 1773 WSO's, 627 prefixes for a score of 2,518,659 points, Stu, K6TU was 2nd with 1470 QSO's, 563 prefixes for a score of 1,947,980. K6LRN, Dick rounded out the top 3.

N6ZFO came out on top in the NA Sprint CW with 281 QSO's and 44 Mults for 12,364 with K6SRZ and K6LRN 2nd and 3rd respectively.

It's never too late to start rally the membership for CQP in October. We came close last year with only 16 logs submitted. Please clear your calendars for October 5-6, 2013 for the 47th running of the California QSO Party. We need all of our members, big guns and little pistols to get on the air if we want to beat the MLDXCC. We've(I) wagered a case of Sonoma County wine to their case Mother Lode wine for the 2013 CQP Club competition. Let's bring home the bacon this year. There might be one or two big gun stations that might need to be manned. Let's start talking amongst ourselves now to make sure we have all of our assets on the air.

#### Logs Due:

March 19, 2013ARRL Inter. DX Contest, CWApril 2, 2013ARRL Inter. DX Contest, SSB

THIS WEEKEND ON THE RADIO. There's a little something for everybody...

The North American RTTY Sprint, SKCC Weekend CW Sprintathon AWA John Rollins Memorial DX CW Contest, NCCC RTTY Sprint, QRP CW Fox Hunt NCCC Sprint RSGB Commonwealth CW Contest AGCW QRP CW Contest

QRP ARCI HF Grid Square CW Sprint EA PSK63 Contest Idaho QSO Party UBA Spring 6-Meter Contest NSARA Contest Wisconsin QSO Party RSGB 80-Meter Club CW Championship QRP 40-Meter CW Fox Hunt NAQCC-EU Monthly CW Sprint CWops Mini-CWT Test are scheduled for

#### **DX** News

by Jim, K6JS

DXCC NEWS (Important Information regarding Digital DXCC Applications).

The DXCC Blog <http://www.arrl.org/dxcc-blog> reports: "Before proceeding with an Online DXCC application you 'MUST', first, have Mozilla Firefox installed on your computer. Online DXCC is not compatible with Internet Explorer. If you do not use Firefox please visit this site to download and install this free program: http://www.mozilla.org/en-US/firefox/new/ "

For the complete announcement, go the DXCC Blog page listed above.

DXCC NEWS. Bill Moore, NC1L, ARRL Awards Branch Manager, is now accepting the following operations for DXCC credit:

4S7DXG – Sri Lanka; Only operations in 2008 and 2011

8 Q7VR-Maldives; Only operations in 2008 and 2011

IRAN, EP. Mohsen, EP3SMH has generally been active using RTTY on 20 and 15 meters around 1500 and 1550z. QSL to home call.

Here's your chance to work the 'Stans...

NAURYZ DX CONTEST. The contest is organized and conducted in order to promote amateur radio on high frequency bands in countries of Central Asia (Kazakhstan, Kyrgyzstan, Uzbekistan, Tajikistan, and Turkmenistan) and is dedicated to the spring celebration of Nauryz (Nowruz) included in the representative list of UNESCO List of the Intangible Cultural Heritage of Humanity, declared as the International Nowruz Day. Contest is held on March 23rd, between 0200-0759z. Bands are 80/40/20/15/10 meters, and modes are CW and SSB. Complete details are available at: http://www.nauryz-dx-contest.com

TUVALU, T2. A group of operators will be QRV as T2GM from March 12 to 23. Activity will be on the HF bands with two stations. QSL via GM4FDM.

VK9C, COCOS KEELING ISLANDS (Update/New Callsign). Operators Chris/GM3WOJ (ZK2V) and Keith/GM4YXI (ZK2X) will be active from Cocos Keeling Island (OC-003), using a new callsign that was issued, VK9CZ (not VK9C/GM2MP), between March 30th and April 13th. Activity will be on SSB and CW, with some RTTY. It is hoped to have a real-time logging system and daily LoTW uploads if possible. More details to follow. A new Web page will be available soon at: http://www.vk9cz.com XR0, EASTER ISLAND (Update). The UK DXpedition team which will be active as XR0YG from Easter Island (SA-001) between March 20-27th (see OPDX.1090), now has a Web page available at: http://xr0yg.com

9M4, SPRATLY ISLAND (Update/Press Release #2). Steve, 9M6DXX, sent out the following on February 19th [Edited]: "On January 9th, I sent you some brief information about the 9M4SLL Spratly DXpedition which will take place between March 10-18th, and promised more details later. Here now is some further information.

Unfortunately Christian, EA3NT, had to withdraw from the DXpedition due to work reasons, but he has been replaced by two experienced Hungarian DXpeditioners: Pista/HA5AO and George/HA5UK. The other operators are John/ 9M6XRO, Steve/9M6DXX, James/9V1YC, Don/G3BJ, Tony/KM0O and Ben/N6MU/DJ0YI (total 8 operators).

9M4SLL will operate with five stations simultaneously at peak times, using mainly Elecraft K3 and K2 transceivers plus full legal power linear amplifiers on all stations. The antennas will all be verticals and all will be sited within a few meters of the ocean. In particular we will have a Titanex V160E 27m (87ft) high vertical for 160 and 80m with a Pennant antenna for RX on those bands. Activity

will be on 160 to 10m, CW, SSB and RTTY. There will be no 60 meters operation as that is not permitted by the Malaysian licence.

The QSL Manager is Tim, M0URX, and direct or bureau QSLs can be requested by OQRS from his website at <http://m0urx.com/oqrs>. Logs will be uploaded to LoTW as soon as possible after the end of the DXpedition - within a few days. We plan to upload to an online log once per day during the DXpedition.

Further information, including suggested operating frequencies, can be found on the 9M4SLL page on M0URX's website at <a href="http://m0urx.com/9m4sll">http://m0urx.com/9m4sll</a>."

#### Propagation de K7RA

The averages of daily sunspot numbers and solar flux over the reporting week (February 28 through March 6) both rose, with sunspot numbers up nearly 36 points to 93.3 and solar flux up nearly 12 points to 112.6, in comparison to the previous seven days. The most active geomagnetic day was Friday, March 1, when the planetary A index was 27 and the mid-latitude A index was 23. Alaska's high latitude college A index was a whopping 64. The upset was sparked by a stream of high speed solar wind.

The latest forecast from NOAA/USAF puts average solar flux for the next five days (March 9-13) at 118.2, higher than average solar flux for the reporting week, which was 112.6.

Predicted solar flux is 112 and 118 on March 8-9, 120 on March 10-11, 118 on March 12, 115 on March 13-14, 105 on March 15, 95 on March 16-17, 100 on March 18-20, 105 on March 21-24, 110 on March 25 through April 1, and 105 on April 2-5.

The predicted planetary A index is 8 on March 8, 5 on March 9, 8 on March 10-12, 5 on March 13-20, 8 on March 21, 5 on March 22-27, then 18, 10, 5 and 10 on March 28-31 and 8 on April 1-4.

# **REDXA Calendar of Upcoming Events:** by Doug, WW6D

Mar 13	* REDXA Monthly Meeting
Mar 30-31	CQ WW WPX SSB
Apr 10	* REDXA Monthly Meeting
Apr 19-21	Int'l DX Convention - Visalia
Apr 27-28	Florida QSO Party
May 4-5	7th Call Area QSO Party
May 8	* REDXA Monthly Meeting
May 11-12	CQ-M Int'l DX Contest
May 25-26	CQ WW WPX CW
Jun 8-10	ARRL June VHF
Jun 12	* REDXA Monthly Meeting
Jun 15-16	All Asian DX CW
Jun 22-23	ARRL Field Day
Jul 10	* REDXA Monthly Meeting
Jul 13-14	IARU HF World Championship

*Refer to http://www.hornucopia.com/contestcal/ for more contest information.* 

# **Contest Scores**

by Jim, K6JS

#### **ARRL DX CW - FEBRUARY**

STATION	CLASS	QSOs	MULTS	SCORE
K6SRZ	SOAB(U) HP	1,165	364	1,236,168
K6RIM	SOAB(U) HP	714	317	679,014
N6ZFO	SOSB/15 LP	520	94	145,080
K6CTA	SOSB/15 HP	312	97	90,792
W6SFK	SOAB HP	157	123	57,564
K6MM	SOAB(U) HP	138	104	43,056
AJ6V	?	130	75	29,250

#### CQ WPX RTTY - FEBRUARY

STATION	CLASS	QSO's	PREFIXES	SCORE
N6IE	SOAB HP	1773	627	2,518,659
K6TU	SOAB HP	1470	563	1,947,980
K6LRN	SOAB HP	775	399	725,382
K6SRZ	SOAB HP	227	163	81,500
K6MM	SOAB LP	233	178	79,744

#### NA SPRINT - CW - February

STN	CLASS	QSOs	MULTS	SCORE
AJ6V	HP	281	46	12,926
N6ZFO	LP	281	44	12,364
K6SRZ	HP	270	44	11,880
K6LRN	HP	233	43	10,019

#### Hello All,

The March 13th meeting with Mark Aaker K6UFO - QRP Contesting and DXing will be held at the Boulevard Cafe & Grill. They are located at 1096 Petaluma Blvd N, Petaluma, CA 94952.

They have an excellent meeting room with AV and internet connectivity. I'm currently working with the owner on the menu selections. We will be able to pay on arrival and we can also bring our own wine without a corkage fee. They serve beer and wine and lite margarita's.

We'll meet at the same time.

#### **Directions from South of Petaluma**

Exit 101N at East Washington Let on East Washington Right on W. Payran Street (Shell Station) Right on Petaluma Blvd Right into Restaurant parking lot

#### **Directions from North of Petaluma**

Exit Old Redwood Hwy/Penngrove (#476) Turn Right on Old Red/Petaluma blvd, continue onto Petaluma Blvd North Turn Left on Sycamore Lane Right into Parking lot



73 and see you at the meeting, Jim Selmi, K6JS President Redwood Empire DX Association







WARC BANDS					
W6XA KGRIM KCGAWX NGOJ KGANP NGIE KGSRZ WGSFK AGGV NGGY	30M		17M	12M	
W6XA	326	W6XA	335	W6XA	327
K6RIM	319	K6RIM	329	K6RIM	294
KC6AWX	228	N60J	317	KC6AWX	239
N60J	221	KC6AWX	301	N60J	233
K6ANP	169	W6SFK	178	N6IE	134
N6IE	165	N7PIB	167	W6SFK	126
K6SRZ	154	N6IE	165	N7PIB	120
W6SFK	99	K6ANP	162	K6SRZ	106
AG6V	3	K6SRZ	143	K6ANP	72
N6GY	3	N6GY	8	N6GY	47

Yikes, W6SFK adds 33 new ones

ARRL DX Challenge		
W6XA	2985	
K6RIM	2530	
KC6AWX	2148	
KGANP	2131	
K6SRZ	1770	
N60J	1674	
N6IE	1256	
N7PIB	1123	
W6SFK	1082	

KC6AWX moving on up

Rules for REDXA Honor Rell Listings. Provide me with your total IOTAs worked, or countries (including deleted) worked for: WARC Bands, 160 Meters, Digital modes, Mobile, 6 Meters or your total for 80,40,20, 15 and 10 for 1.5K Club. Countries do not count unil HQ Awards Commitme takes action and announces a start date for a new country. W65FK's new antenna playing well, 34 new ones

	160 Meters
W6XA	224
W60SP	177
K6ANP	158
K6SRZ	150
K6RIM	55
N60J	57
N6IE	37
KC6AWX	27
N7PIB	15

N6IE enters the fray

Six Meter DXCC	*
керхү	170
WEXA	130
K6RIM	14
KC6AWX	8
K6ANP	6
W6SFK	2

W6SFK moving on up

	1.5K Club
W6XA	1689
K6RIM	1588
K6ANP	1371
N6OJ	1352
KC6AWX	1345
K6SRZ	1124
N6IE	1043
W6SFK	683
N6GY	148

W6XA still at the top

別	RTTY/Digital
N6OJ	298
KC6AWX	284
K6RIM	253
N6IE	185
W6XA	162
W6SFK	162
K6SRZ	140
K6ANP	123

K6QXY adds another new one

Send your REDXA Honor Roll updates to:

Jselmi@Hotmail.com Updated 3-07-13

Mo	bile DX
-	
N7PIB	121
KójS	78
W6SFK	3
K6JS adds TX5K and JT	100

DXCC Mixed		
KGRIM	366	
N60J	360	
W6OSP	353	
W6XA	352	
KC6AWX	348	
K6SRZ	346	
W6SFK	269	
W6SFK works 11 new ones!!!		

KC6AWX is on OJ's heels

# Is This Really a Club Newsletter? Reprinted from the NCDXF "The DXer" August 1995 Re-printed verbatim except for edits to reflect the present...

If you checked out Sunspots the last year or so you might have noticed that this issue's offerings, beyond the Club reports, are almost entirely from Jim, K6JS.

My bylines are familiar to readers of these pages, but I have little company. Frankly, I think it is pretty sad that over 60 members—can collectively contribute nothing whatsoever to their club's monthly newsletter-acknowledged as it is to be the club's lifeline.

Are you really all content to have one person be the sole contributor to Sunspots? Or, to put it another way, how long do you think I can keep all these objects in the air without help?

I cannot remember anybody submitting an article other than a cookie recipe or weather report. I've never had a backlog of articles and features. One simply cannot keep on printing every word one has: both quantity and quality must inevitably suffer.

Once again, I beseech you to GOYA (once Mayor Alioto's favorite expressions) and share with your fellow NCDXCers REDXAers some of the anecdotes, remembrances and high/low points of your DXing and contesting careers. I'm sure someone can write an article about some facet of DXing or contesting. The alternative is a shrinking DXer Sunspots.

Everything old is new again...This is not a new phenomenon. This article above was copied and slightly edited from the NCDXC issue of the "DXer" from October of 1995. REDXA members Al Burnham, W4RIM was President and Ed Schuller, W6CTA Contest Manager.

How well does YOUR Reciever hear?	Drake TR-775
	Heath SB-10475
Receiver Test Data	WJ HF-100075
By SHERWOOD ENGINEERING	Icom 706MkIIG74
http://www.sherweng.com/table.html	Ten-Tec Omni-B74
	Icom IC-73074
Sorted by Third-Order Dynamic Range Narrow	Kenwood R-820S74
Spaced - or- ARRL RMDR (Reciprocal Mixing	Collins 75-S3B74
Dynamic Range) if Phase Noise Limited	Icom IC-78173
	Kenwood TS-930S73
Device Dynamic Range Narrow Spaced(dB)	Icom IC-70173
	Collins 75S-3C72
Hilberling PT-8000A105w	Kenwood TS-480HX72 Without CW Xtal
Elecraft KX3104t	Filter
Yaesu FTdx-5000D101f	JRC NRD-52572
Elecraft K3101pf	Yaesu FT-1000 MP MKV71k Inrad roofing filter
Perseus99	mod
FLEX-5000A96	Icom 756 Pro71
Ten-Tec Orion II95i	Drake R-871
Ten-Tec Orion93	Icom IC-R7271
Ten-Tec Eagle90f	Icom R-900071
FLEX-300090f	Elecraft K270
Kenwood TS-590S88f	JRC NRD-53570
FLEX-150088	Kenwood TS-830S70
Drake R-4C/CF-600/684	Icom IC-76170
Yaesu FTdx-300082f	Kenwood TS-870S69
AOR AR-703082	Yaesu FT-1000 MP MKV69
Icom IC-76581f	Yaesu FT-1000 D69
Atlas 350-XL81	Lowe HF-15069
Kenwood TS-830/YK8881	Kenwood TS-430S69
Ten-Tec Omni VII80	Yaesu FT-1000 MP68
Icom IC-780080f	JRC NRD-54568
Elecraft K280f	Signal/One CX-11A68
Ten-Tec Omni VI+80	Kenwood TS-180S68
Yaesu 901-DM80f	Drake TR-4C68
Yaesu FT-95079f	Icom IC-73568
Collins R-390A79	Icom IC-R7567
Ten-Tec Corsair79	Drake SW867
Icom IC-770078f	Racal 6790 GM66
Icom IC-760078f	Lowe HF-23566
Icom IC-741078f	AOR AR303066
Icom IC-720A78	Yaesu FRG-10065
Kenwood TS-820S78	Kenwood R-500065
Kenwood TS-85077 Inrad-400s	Palstar R-3064
JRC NRD-51577f	Yaesu FRG-770064f
Ten-Tec Omni V76	Kenwood R-100064f
Atlas 210/215X76	Heath SB-30364
Icom 756 Pro III75	Collins KWM-38064f
Icom 756 Pro II75	Com IC-75164
Drake R-775	<sup>9</sup> Icom 700063

Yaesu FT-200063n
Kenwood TS-52063
Yaesu FT-One63f
Collins 75-S3 Wing63
JRC NRD-9363
Yaesu FT-98063
Icom IC-R70/R-71A62
Grundig Satellite 70062
KWZ-3060
Collins 51S160
Icom R-850059
Yaesu FT-101E59
Kenwood TS-200059
Drake R-4C Stock58
Yaesu FT-75756
Ten-Tec 34046
Kenwood R-200045

#### NOTES:

f Measurement was Phase-Noise Limited = ARRL RMDR (Reciprocal Mixing Dynamic Range) k At 1 kHz dynamic range was 66 dB n Measured with 3 kHz roofing filter p with 200 Hz 5-pole filter t with optional roofing filter w At 1 kHz dynamic range is 104 dB

A word from the author:

Sure you may publish the data. Do, however, explain that this is one measurement out of many. The importance of close-in dynamic range applies mainly to a CW contest / DX pile-up environment. One should pick a radio with a 2-kHz dynamic range of 80 dB or more for serious CW pile-up operation.

On SSB, unfortunately, the transmitted IMD of the adjacent QRM is usually worse than the performance of most receivers with a close-in dynamic range around 70 dB or higher. This did not used to be the case, but with today's power amps that typically run on 13.8 volts DC, a really clean PA is rare.

Also my position is once you decide to select a radio from the top tier on my list, there are many things that need to be considered. The operator needs to enjoy using the radio, and this is affected by many factors:

Ergonomics; how clean is the receive audio; how well the AGC handles impulse noise without having to resort to using the blanker (many do very poorly in this respect with SSB bandwidth filters); how well the ALC works and doesn't cause serious overshoot that can damage a linear amp; how reliable is the rig or does it tend to fail too often; how well does the company support the radio in warranty and when it is out of warranty; are there adequate firmware updates if it is a radio with DSP (or can the firmware be upgraded at all).

The list goes on and on.

Attached is a document that explains the columns in my table. Feel free to use any or all of it.

Please send me a copy of your newsletter, as I am unfamiliar with your publication. A PDF is fine.

73, Rob, NC0B



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### **MEETING: MARCH 13, 2013**

