



NEWSLETTER

No. 52 June 2013

Top Band Contest Results

KCJ released the results of Top Band Contest held Feb. 9-10 this year. The winner is JA0IXW.

Details are described at the page eight and the following pages.

JARL Kagawa Branch Meeting

JA5CUX Shigeaki Ogose

Just after coming back from abroad, I participated in JARL Kagawa branch annual meeting on March 10 with a member of KCJ, Mr. Fujiwara JA5OSA, displaying the list of KCJ members and of KCJA winners. We also showed a straight key, a side swiper key and a electric keyer with a paddle. KCJ bulletins "The Key" were handed out visitors. We met hams full of variety: CW specialists, those being interested in CW but don't know how to key or how to listen to CW on the air.

(photo l: JA5CUX r: JA5OSA)



JARL Saitama branch Meeting

JA1PHE Nobuaki Ohya

KCJ members in Saitama prefecture participated in JARL Saitama branch meeting, displaying the lists of KCJ members, the ranking of KCJA and the successive winners of KCJ contests. Among aged visitors, we met a young primary school boy and a young guy in his 20's. Visitors asked us what kind of activities KCJ does, how many members our club had, if there was any class for becoming ham or not.



The meeting was successful and we will join next year. (photo l to r: JQ1CIV, JA1TCF, JA1PHE, JK1EBA, 7K1DPE)

On the Joining KCJ of my Daughter

JO3OMA Kousuke Nagai

My daughter Yuna JP3ELL became a member of KCJ. She is a third grade pupil of a primary school. She failed the exam held in the morning at KanHam Fair last year. Being mortified this failure with watery eyes, she took and passed the exam held in the afternoon on the same day. I talked with her about the pleasure of ham radio but not forced her to take exams, so I had not recognized she had that strong will. After getting the license she went with me in my mobile operation more than before. She also got the second place in the category of single operator new comer of JCC/JCG contest.

In KanHam Fair held last year she met many KCJ members and was taught CW with the straight key displayed at the KCJ booth. Then she often asked me about CW. I explained her about the KCJ. She expressed her strong will to join the KCJ. However, I thought she was too young to be a member. But some members of KCJ told me it is no problem to join the KCJ as long as she had the interest in CW and the intention to be a member. Therefore, she applied and got an admission to be a member. I promise to support her for doing best about KCJ and CW.

Introduction of KCJ Members

JJ1INO, Yousuke "Ino" Inoue

I was born in 1942 in Yokosuka Kanagawa prefecture. I am a minority who remembers the situation of world war II. I remember that I ran into a dugout when I had heard a yellow alert. Yokosuka had a naval base, so the defense was good enough not to be damaged by incendiary bombs, I guess. After the war I was impressed by a red brick building standing in the field deserted by bomb fire in Tokyo. I became to know that this was Tokyo rail way station.

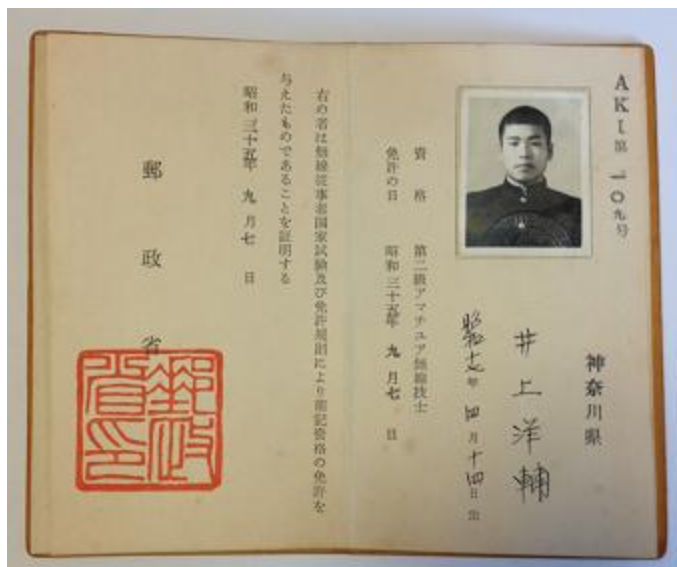
I got interested in electricity when I was in a primary school. First home brew gadget was a flashlight which consisted of a small light bulb with a lens attached like a head, a switch, two batteries in a wood box. I used this to look for beetles. Other gadgets I made were motors and bells. When I built a bell, I didn't need to listen to teacher's instruction and I afforded the time to teach other pupils how to make it.

In a high school I belonged to a ham radio club, I got a second class operator license but didn't have a station. (My operator license is shown below which was issued in 1960.) I was a SWL JA1-2203 listening to CW QSO on 14 MHz band. Rigs were a home-brew regenerative receiver 0-V-1, a super heterodyne one. I also built a double super heterodyne receiver with 50 kHz second IF. Vacuum tubes were GT type inexpensive American military surplus.

In 1961 I started job concerned with the magnetic drum of digital computers and then, the debug of arithmetic calculation circuits. In those days, there existed no ICs or LSIs. Circuit consisted of diodes and transistors. My occupation was related to digital devices and my hobby to analog devices. I wonder why I didn't hope to work on wireless radio when I chose working section.

I restarted to listen to domestic CW QSOs with Yaesu FR-101 because I married and stayed home for relatively longer time compared with that in bachelorhood. I completed JCC600 (SWL) in three years. Next step was to have a CW QRP station. Later I built a transmitter with 0.5 watts QRPp output, which was transistorized one. I also built a receiver with full break-in QSK.

One day, because of the night time skip, I was not able to hear domestic signals on 40 meters but managed to work five USA stations with QRPp. I was interested in how



they hear my QRPp signals. Anyway they had good ears.

I will enjoy my hobby with the hope to work all stations in the world on all bands with a home brew QRPp rig on CW mode.

JA4AVO Takaaki “TAKA” Shishido

February 2, 1961 was commemorate day I should remember. In that day, two officers came from the radio wave administration for JA4 area in order to check out my ham radio instruments. After the inspection, they were going to go back their office with no remarks. Thus, I asked if I could run my station or not. They said “Yes, you passed the check, so OK on running it.” I plunged into ham radio world. My first QSO was with JA4AOL in Shimonoseki city who responded to my first CQ. I was so excited to work far distant person, so I spoke with a loud voice.

When I was in higher grade of a primary school, my friend asked me to accompany him for visiting a neighbor who had radio. That person was hearing something with an earphone from a black box. A wire from one of AC line was connected to this box. Yes, it was a crystal radio with an antenna. I, too, bought a crystal and made a crystal radio. I learned that the longer the antenna, the louder the receiving signals. Also learned an outdoor antenna was better than an indoor one. In my junior high school, I had a friend who already was a kind of an engineer, building radios and audio instruments, developing films, constructing radio control instruments for model planes. I borrowed parts of radio he had used to study. I put together these parts to brew three tube radio. Soon the construction was developed to four tube super heterodyne receiver and five tube one.

In my high school days I acquainted with a ham radio student. I became to know the exam for ham radio operator license would be held in my second grade of high school. I took and passed it. My high school was not for engineering, so it was difficult to learn the concept of transmission. In addition, I was anxious about my household economy for extra expense of my radio instruments. My father, however, was pleased at my passing of a national exam and helped me with money for building rigs. In order to set up a station within five months, I neglected studies of high school.

When I was at sixth grade of a primary school, I visited the black market near Hiroshima rail way station by accident and found and bought a key with a wood base. At first I got it just by curiosity but it influenced my ham life. Eight years later, this key played important role for me, a CW class amateur. Used in the circuit of



cathode keying, its contact point became wore off due to sparks and filing. Still I keep it even now. It is my precious thing.

My friend got me interested in CW. Even though domestic propagation was not so good, he worked EUs or USAs on CW mode and talked me about the contacts. In my early twenties, I started CW operations and got to know the CW world.

In the first eleven years of my ham life, 1961 to 1972, I was active with a tower and a beam antenna. However, in 1973 to 2000, because I have lived in the fourth floor of a condominium, I could not enjoy ham due to a small antenna. In recent five years, again I have been active as if ham is my occupation. (Photo right: Tower and antenna of JA4AVO)



JA1OYB Shigeo “JUN” Uchida

I learned amateur radio by Japanese CQ magazine in May 1962, which I, by chance, found in a book store. Still I did not know how to become a ham, so I looked for beginners' book and found a few. So far I had built regenerative receivers but not transmitter. After I built a transmitter, I wanted to obtain a license and got it at 1963.

In those days when I started ham radio, the price of a BC779 and SP600JX were ¥50,000 and ¥250,000, respectively. Feelings of dialing of them were astonishingly good in comparison with that of a string dial. A kit of two stage transmitter was priced ¥21,000 and eight tube receiver ¥18,000. You can see how expensive American military surplus were. I wish I had gotten at least BC779.

Around 1978 I found and bought military keys at a junk store. These triggered me to start collecting keys. Please visit



<http://www.digitalworldjapan.com/enc/rig/collect.htm>

I am in this site. (Sorry this site was written in Japanese.)

Recently I became to be familiar with Japanese Morse codes and at the on-air-meeting, I have presided the key station. I have using a key KY3A, made by JRC when I operate Japanese codes. .

Voice of Members

Short Breaks

JH1XUP: Spring has come at last. In my local club, members are planning to go to see cherry blossoms.

JH1DHY: Sorry for the story about phone. The other day I found a rare station (9U4U) and have been calling him for one hour. I managed to get him. However my wife and children claimed; my voice made trouble against neighbors; noisy voice made them wake up, I had to run CW. These reminded me of the followings story: My son wrote in his free composition that "My father does "*Japan*" after he came home from work." His teacher called and asked me to tell what I am doing *Japan* is. (ed: he used *Japan* as a phonetic code for J. So every time he called rare ones he started like Japan hotel.....)

JG1NGT: Participated in ARRL CW contest on 15 and 10 meters with QRP. Couldn't work W1, 2 areas.

JJ1INO: I am challenging to accomplish 'Worked All City Award' (WACA) with QRPp 0.5 Watts. I need another seven cities for this award. April 3, I chased JH3HGI/5 and got him with no pile-up. I praised his listening ability for my QRPp signals under the poor condition.

JN1WXW/1: Because of a lot of windy days, I couldn't set my fishing rod antenna. I was able to participate in Hiroshima WAS contest on 40 meters for one hour. I thought the propagation for DX was not good even though it was spring but the domestic one was good. Desired to be better at the contest.

JQ1CIV: My recent activity was nursing not ham radio in order to make good matching with my wife.

JA2MYA: Higher frequency above 17 meters was getting so better that EU signals came strongly.

JA2OLJ: I was busy in golf, agriculture, job and ham radio. I need to confirm a few villages and towns for an award. I often found their QRV on Japanese cluster but difficult to meet them on the air.

JS2KHM: I finished setting a antenna for 30 meters which had been left along in the corner of my room because it was chilly, windy or busy to treat it. I am a beginner on this band, so I don't understand the character of this band. My object for the present is to complete 10 MHz AJD/WAJA.

JO3OMA: My daughter won second place in All City and Gun Contest held last year by JARL. She said " Apart from the certificate of merit, I want a operator license of third class" She seemed to be interested in CW than phone. She has a character different from that usual young girls have.

JA5CUX: I have been making schedule QSOs on VHF/UHF on my job trip to get high score KCJA.

KCJ Award

JH3CGT Mar. 02, 2013 KCJA100 #343, KCJA150 #178, KCJA200 #169,
KCJA250 #123

JL1FXW Mar. 08, 2013 KCJA250—525, KCJA 550 #017

JA1COP Mar. 29. 2013 KCJA575 #008

JA1FCY Mar. 31, 2013 KCJA525 #017

JN1HYU May 11, 2013 KCJA100 #344, KCJA150 #179

JI1EKD May 12, 2013 KCJA100 #345, KCJA150 #180, KCJA200 #170

New Members

JP3ELL Yuna "YUNA" Nagai #436

She is a daughter of JO3OMA of third grade of primary school.

JA1KI Yukio "KIO" Nishiyama #437

He has been very active and worked many KCJ members. He also has been active on portable operation around Honshu.

JE0EHE Takeo "TAKE" Tsukada #438

Japanese CW codes seemed to be his disadvantage at operator license exams. After twice fails he passed it.

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Top Band Contest Results

Remarks in the table below:

IM: You had his/her callsign wrong.

UM: He/she had your callsign wrong.

RR: You miscopied his/her RST.

RS: He/she miscopied your RST.

MR: You miscopied his/her multiplier.

MS: He/she miscopied your multiplier.

NF: Your callsign was not in his/her log.

TM: QSO time differed more than 10 min.

WC: Dupe QSOs.

OF: QSO band was mismatched.

NL: He/she did not send his/her log.

KCJ 2013 TOP BAND CONTEST RESULTS

Overseas		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
1 *	RW0LO	AS	37	32	21	672	0	0	0	0	0	0	0	0	0	0	5
2	RW0LBM	AS	30	7	6	42	0	0	0	0	0	0	2	17	0	0	4
3	RY9C	AS	13	8	5	40	0	0	0	0	0	0	2	0	0	0	3
4 +	N6TI	NA	6	4	4	16	0	0	0	0	0	0	2	0	0	0	0

Single Operator		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
1 *	JA0IXW	NN	183	163	38	6194	0	1	0	0	0	0	0	0	0	0	31
2 *	JE1BMJ	CB	184	157	38	5966	0	0	0	1	0	0	1	0	0	0	33
3 *	JR2AWS	GF	169	143	37	5291	0	0	0	0	0	1	1	0	0	0	28
4 *	JH1MXV	GM	166	138	36	4968	1	1	0	0	0	1	0	1	1	0	23
5 *	JH2FXK	AC	160	138	35	4830	0	1	0	0	0	0	1	1	0	0	27
6 +	JA7ODY	MG	148	130	36	4680	0	1	0	0	1	0	1	0	0	0	18
7	JA2CUS	AC	144	128	36	4608	1	0	0	0	0	0	0	1	0	0	18
7 +	JF1KWG	TK	159	128	36	4608	0	0	0	0	0	1	1	1	0	0	28
9 +	JH4FUF	HS	147	123	37	4551	0	2	0	0	0	1	1	0	0	0	24
10 +	JF3BFS	HG	158	126	35	4410	0	2	0	0	0	0	1	0	1	0	28
11	JA2PJC	AC	125	119	36	4284	1	0	0	0	0	0	0	0	0	0	17
12 +	JH1CHU	TG	112	109	38	4142	0	2	0	0	0	2	0	0	0	0	11
13 +	JA1CP	KN	136	119	34	4046	1	0	0	0	0	0	0	1	0	0	19
14	JR2FJX	AC	119	111	36	3996	1	0	0	0	0	0	0	0	0	0	11
15 +	JI4HKA	TT	116	110	36	3960	0	0	0	0	2	0	0	0	0	0	12
16 +	JA3PRD	KT	126	106	35	3710	2	1	0	0	0	0	2	0	0	0	15
17	JA2XYO	AC	124	102	35	3570	3	0	0	0	2	0	1	0	0	0	16
18	JR3KQJ	HG	111	98	35	3430	0	0	0	0	2	1	0	0	0	0	14
19 +	7N1BHO/1	ST	113	100	33	3300	0	2	0	1	0	0	2	0	0	0	12
20	JA1XYP	TK	102	94	35	3290	1	1	0	0	0	0	0	1	0	0	9
21 +	JA9DOF	TY	97	91	35	3185	0	2	1	0	0	0	0	0	0	0	7
22 +	JA4EVH	OY	90	84	34	2856	0	0	0	0	0	0	0	0	0	0	6
23	JR1GJP	CB	100	89	32	2848	0	0	0	0	0	0	1	0	0	0	10
24	JE0EHE	NN	102	90	31	2790	1	2	0	0	0	0	1	0	0	0	12
25 +	JH6RON	OT	94	88	31	2728	1	0	0	0	1	1	0	1	0	0	6
26	JA2MYA	GF	99	82	31	2542	4	0	0	0	1	0	0	0	1	0	11
27	JK3HFN	HG	90	77	32	2464	0	0	0	0	0	1	1	0	0	0	11
28	JQ1TIV	ST	81	82	30	2460	0	0	0	0	1	0	0	0	0	0	6
29 +	JA7AMK	IT	86	76	31	2356	4	0	0	0	0	0	0	1	0	0	5
30	JJ1UDO	TK	91	78	30	2340	0	0	0	0	0	0	1	3	0	0	9
31 +	JE8KGH	IS	77	75	31	2325	0	1	0	0	0	1	0	0	0	0	8
32 +	JA2LMY	SO	72	73	30	2190	0	0	0	0	0	0	0	0	0	0	3
33	JA4GWE	OY	74	73	29	2117	0	1	0	0	0	0	0	0	0	0	4

Single Operator		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
34 +	JJ5SKS	EH	74	73	28	2044	1	0	0	0	0	0	0	0	0	0	4
35	JA2TFU	AC	69	67	30	2010	0	0	0	0	0	0	0	2	0	0	4
36	JA2QVP	AC	70	65	29	1885	1	0	0	0	0	0	1	1	0	0	6
37	JJ4ESI	OY	74	64	29	1856	0	0	0	0	0	0	1	0	0	0	9
38 +	JQ1KRT	IB	78	68	27	1836	0	2	0	0	0	2	0	0	0	1	5
39 +	JP2XYT	ME	64	63	29	1827	0	1	0	0	0	0	0	1	0	0	3
40	JR2MIO/2	ME	71	62	29	1798	0	2	0	0	1	0	0	0	0	0	6
41 +	JA6BWH	FO	62	61	29	1769	1	0	0	0	0	1	0	0	0	0	3
42	JO4CTB	OY	60	61	28	1708	1	0	0	0	0	0	0	0	0	0	2
43 +	JH4RAL/3	SI	70	62	27	1674	0	2	0	0	0	0	2	0	0	0	4
44	JS2PHO/2	AC	67	57	28	1596	0	3	0	0	0	0	1	0	0	0	6
45	JO1XEU	IB	58	57	27	1539	0	0	0	0	1	0	0	1	1	0	2
45	JA7CPW	MG	63	57	27	1539	1	0	0	0	0	0	2	0	0	0	3
47	JA9FHB	TY	51	54	28	1512	0	1	0	0	0	0	0	1	0	0	3
48	JE1LDU	TG	64	52	29	1508	2	1	0	0	1	0	1	1	0	0	6
49 +	JA4TY	YG	59	50	29	1450	3	0	0	0	1	1	0	0	0	0	4
50 +	JA3RSJ	NR	57	52	27	1404	0	1	0	0	0	0	0	0	0	0	4
51	7N1PVD/1	KN	55	56	25	1400	1	0	0	0	1	0	0	0	0	0	1
52	JH1GNU	KN	50	47	26	1222	1	0	0	0	1	0	0	0	0	0	1
53	JJ7ATA/1	CB	63	55	22	1210	1	0	0	0	1	1	1	1	0	0	3
54	JJ0VWL	NN	50	52	23	1196	0	1	0	0	0	0	0	0	0	0	5
55 +	JA5CBU	KA	50	46	25	1150	1	0	0	0	0	0	1	0	0	0	2
56 +	JA9VCO	IK	45	43	23	989	0	1	0	0	0	1	0	0	0	0	0
56	JF3PGW	KT	46	43	23	989	0	1	0	0	0	1	0	1	0	0	0
58	JL1UDM	TK	48	47	19	893	0	0	0	0	0	0	0	0	0	0	1
59	7L1VET	KN	41	37	24	888	0	0	0	0	0	0	0	0	0	0	4
60	JA0IND/1	KN	42	40	21	840	0	1	0	0	0	0	1	0	0	0	0
61	JA1CXC	GM	44	41	19	779	0	0	0	0	0	0	0	0	0	0	3
62	JL3RNZ	HG	38	37	21	777	0	0	0	0	0	0	0	0	0	0	1
63	JP1FOS	KN	42	38	20	760	0	0	0	0	0	0	0	0	0	0	4
64	JJ1DHY	GM	40	33	23	759	5	0	0	0	0	0	0	0	1	0	1
65	JE2HXL	ME	37	36	21	756	0	1	0	0	0	0	0	0	0	0	0
66	JH1NXU	IB	35	35	20	700	0	0	0	0	0	0	0	0	0	0	0
67	JA1KI	TK	36	35	19	665	0	0	0	0	0	0	0	0	0	0	1
68	JA9WWH/1	TK	45	39	17	663	1	1	0	0	0	1	0	0	0	0	3
69 +	JE7DMH	FS	37	34	19	646	0	0	0	0	0	0	0	1	0	0	2
70 +	JR7KGE	YM	39	35	18	630	0	0	0	0	1	1	0	0	0	0	2
70	JA0HCQ	NN	36	35	18	630	0	0	0	0	1	0	0	0	0	0	0
72 +	JR6CSY/6	NS	36	31	20	620	0	0	0	0	0	0	1	0	0	0	4
72	JA5FOP/4	HS	33	31	20	620	0	0	0	0	0	0	0	1	0	0	1
74	JH3MKP	KT	35	34	18	612	0	0	0	0	0	0	0	0	0	0	1
75	JJ7RRS	FS	33	32	19	608	0	0	0	0	0	0	0	0	0	0	1
76	JA6FFK	FO	30	31	19	589	0	0	0	0	0	0	0	1	0	0	2
77	JK2HGB	AC	31	31	18	558	0	0	0	0	0	0	0	0	0	0	0
78	JM1EKM	TK	31	30	18	540	0	0	0	0	0	0	0	0	0	0	1
79	JA1UZG	CB	31	28	19	532	0	2	0	0	1	0	0	0	0	0	0
80	JO1EEQ	TG	30	29	18	522	0	1	0	0	0	0	0	0	0	0	0
81 +	JG3CQJ	WK	26	28	18	504	0	0	0	0	0	0	1	1	0	0	0
82	JF1KML	TK	32	31	16	496	0	0	0	0	0	0	0	0	0	0	1
83	JH3FGI	HG	30	26	19	494	2	2	0	0	0	0	0	0	0	0	0
83	JA7EVH	IT	26	26	19	494	0	0	0	0	0	0	0	0	0	0	0
85	JJ1NYH	TK	30	29	17	493	0	0	0	0	0	0	0	0	0	0	1
86	JJ3TTH	OS	28	27	18	486	0	0	0	0	0	0	1	0	0	0	0
86	JE0KBP	NI	26	27	18	486	1	0	0	0	1	1	0	0	0	0	0
88	JA9DTV/1	KN	31	29	16	464	1	1	0	0	0	0	0	0	0	0	0
89	JA1COP	CB	35	33	14	462	0	1	0	0	0	0	1	0	0	0	0
90	JA1LJW	TK	29	27	17	459	0	1	0	0	0	0	0	0	0	0	1
91	JP1SRG	CB	31	28	16	448	1	1	0	0	0	0	1	0	0	0	0

Single Operator		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
91	JH7UJU	MG	30	28	16	448	0	1	0	0	0	0	0	0	0	0	1
93	JA4GNK	TT	28	27	16	432	1	0	0	0	0	0	0	0	0	0	0
94	JE3VRJ	OS	25	24	17	408	0	1	0	0	0	0	0	0	0	0	0
95	JN1BBO	ST	31	29	14	406	0	0	0	0	0	0	0	1	0	0	1
96	JR2BBJ/2	AC	32	26	15	390	4	2	0	0	0	0	0	0	0	0	0
97	JK2VOC	ME	25	24	16	384	0	0	0	0	0	0	0	0	0	0	1
98	JG2KGS/2	AC	23	22	17	374	1	0	0	0	0	0	0	0	0	0	0
99	JA5CUX/5	KA	24	23	16	368	0	0	0	0	0	0	1	0	0	0	0
100	JP3AEL	OS	25	24	15	360	1	0	0	0	0	0	0	0	0	0	0
101	JA1TCF	ST	26	25	14	350	0	1	0	0	0	0	0	0	0	0	0
102	JH1MTR/4	TT	22	20	15	300	0	2	0	0	0	0	0	0	0	0	0
103	JF2FIU	AC	22	21	14	294	0	0	0	0	0	0	0	0	0	0	1
103	JA2DHF	AC	23	21	14	294	0	1	0	0	0	0	0	0	0	0	1
103	JA1OYB	TK	25	21	14	294	1	1	0	0	0	1	0	0	0	0	1
106	JA1CGN/2	ME	24	24	12	288	0	0	0	0	0	0	0	0	0	0	0
107	JA1HMK	TK	21	20	14	280	1	0	0	0	0	0	0	0	0	0	0
107	JK1SDQ	TK	21	20	14	280	1	0	0	0	0	0	0	0	0	0	0
107	JA1CTZ	ST	20	20	14	280	0	0	0	0	0	0	0	0	0	0	0
110	JM1HUX	TK	21	21	13	273	0	0	0	0	0	0	0	0	0	0	0
110	JH5IRT	EH	21	21	13	273	0	0	0	0	0	0	0	0	0	0	0
112	JN3DMJ	WK	20	20	13	260	0	0	0	0	0	0	0	0	0	0	0
113	JH4JUK	HS	25	23	11	253	0	1	0	0	0	0	0	1	0	0	0
114	JG1AVO	CB	18	18	14	252	0	0	0	0	0	0	0	0	0	0	0
114	JA3PXH	WK	20	18	14	252	0	0	0	0	1	0	0	0	0	0	1
116	JH1SGG/1	TK	20	17	13	221	0	0	0	0	1	0	0	0	0	0	2
117	JA1PHE	ST	15	14	14	196	0	1	0	0	0	0	0	0	0	0	0
118	JA0AVS	NI	17	15	13	195	2	0	0	0	0	0	0	0	0	0	0
118	JE1PMQ	TG	18	15	13	195	0	0	1	0	0	0	0	1	0	0	1
120	JI3DNN/3	OS	16	16	12	192	0	0	0	0	0	0	0	0	0	0	0
121	JH0EPI	NI	15	15	12	180	0	0	0	0	0	0	0	0	0	0	0
122	JA3KIO	HG	15	14	12	168	0	0	0	0	0	0	0	0	1	0	0
123	JA0CJK	NI	15	15	11	165	0	0	0	0	0	0	0	0	0	0	0
124	JH1JBP/1	ST	15	14	11	154	0	0	0	0	0	0	0	0	0	0	1
124	JH3TCC	WK	17	14	11	154	1	1	0	0	0	1	0	0	0	0	0
126	JG3DOC	OS	19	16	9	144	0	0	0	0	0	1	0	0	0	0	2
127	JA3AIC	OS	13	13	11	143	0	0	0	0	0	0	0	0	0	0	0
128	JR6DM	ON	14	14	10	140	0	0	0	0	0	0	0	0	0	0	0
129	JK1MZT	KN	15	13	10	130	0	0	1	0	0	0	0	0	0	0	1
129	JM3UGA	NR	13	13	10	130	0	0	0	0	0	0	0	0	0	0	0
131	JA7LCL	MG	12	12	10	120	0	0	0	0	0	0	0	0	0	0	0
132	JF2WME	AC	13	12	9	108	0	0	0	0	1	0	0	0	0	0	0
133	JA8NNT/1	ST	13	13	8	104	0	0	0	0	0	0	0	0	0	0	0
134	JA3KZG	HG	11	10	10	100	0	1	0	0	0	0	0	0	0	0	0
135	JL4WYY	HS	10	10	9	90	0	0	0	0	0	0	0	0	0	0	0
135	JH7LUF	FS	10	10	9	90	0	0	0	0	0	0	0	0	0	0	0
137	JA6FOF	NS	11	11	8	88	0	0	0	0	0	0	0	0	0	0	0
138	JH2CMH	AC	10	10	8	80	0	0	0	0	0	0	0	0	0	0	0
138	JH4FVU	TT	10	10	8	80	0	0	0	0	0	0	0	0	0	0	0
140	JR6ITD/6	FO	11	11	7	77	0	0	0	0	0	0	0	0	0	0	0
141	JQ1NID/1	CB	12	9	8	72	0	1	0	0	0	1	1	0	0	0	0
142	7N2SPK	TK	10	10	7	70	0	0	0	0	0	0	0	0	0	0	0
143	JH7VOT	IT	9	9	7	63	0	0	0	0	0	0	0	0	0	0	0
144	JG7HRZ	FS	11	10	6	60	0	0	0	1	0	0	0	0	0	0	0
145	JO3MQY	OS	7	7	7	49	0	0	0	0	0	0	0	0	0	0	0
145	JH8HAV/1	KN	7	7	7	49	0	0	0	0	0	0	0	0	0	0	0
147	JM1OOP	KN	9	8	6	48	0	0	0	0	1	0	0	0	0	0	0
148	JA7ZP	AT	9	7	6	42	2	0	0	0	0	0	0	0	0	0	0
149	JA0GZ	NI	10	8	5	40	0	0	0	0	0	1	1	0	0	0	0
150	JH0OZT	NN	6	6	6	36	0	0	0	0	0	0	0	0	0	0	0

Single Operator		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
150	JA1RIZ	ST	6	6	6	36	0	0	0	0	0	0	0	0	0	0	0
152	JM1LRA	ST	6	6	5	30	0	0	0	0	0	0	0	0	0	0	0
153	JF3QND	OS	5	5	5	25	0	0	0	0	0	0	0	0	0	0	0
153	JH6KEE	NS	5	5	5	25	0	0	0	0	0	0	0	0	0	0	0
155	JA7ARW	MG	5	5	4	20	0	0	0	0	0	0	0	0	0	0	0
155	JE0JAO	NI	5	5	4	20	0	0	0	0	0	0	0	0	0	0	0
157	JA1JRS	TK	4	4	4	16	0	0	0	0	0	0	0	0	0	0	0
158	JA7TJ	IT	5	5	3	15	0	0	0	0	0	0	0	0	0	0	0
159	JG7SFR/1	TK	5	4	3	12	1	0	0	0	0	0	0	0	0	0	0
159	JF1NPO	CB	6	4	3	12	1	0	0	0	0	0	0	1	0	0	0
161	JF1LLB	KN	4	3	3	9	0	0	0	0	0	0	0	0	0	0	1
162	JH3PTC/4	HS	3	3	2	6	0	0	0	0	0	0	0	0	0	0	0
163	JJ3JJL	SI	2	2	2	4	0	0	0	0	0	0	0	0	0	0	0
164	JR6OSY	FO	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0
165	JR8QFG	IS	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
165	JH0WJF	NN	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
165	JA5ERZ	TS	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
165	JF3GFH/1	KN	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
165	JF3ROH	HG	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
165	JA5INF/1	ST	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0

Multi Operator		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
1 *	JE1ZWT	CB	112	108	32	3456	0	1	0	0	0	0	0	2	0	0	13

SWL		FINAL															
Rank	CALL	QTH	QSO	PTS	MUL	SCORE	IM	UM	RR	RS	MR	MS	NF	TM	WC	OF	NL
1 *	JA4-4665/1	KN	58	58	24	1392	0	0	0	0	0	0	0	0	0	0	0
2 +	JI1LHT	ST	26	24	12	288	0	0	0	0	0	0	0	0	0	0	2
3	JA3-6644	HG	17	17	9	153	0	0	0	0	0	0	0	0	0	0	0
4	JA1POS	YN	3	3	3	9	0	0	0	0	0	0	0	0	0	0	0
5	JH8CLC/7	MG	2	2	2	4	0	0	0	0	0	0	0	0	0	0	0

Check log: JA8AJE, JQ2WGY/3, JR8YLY/1
Ops JE1AWT: JA1MML, JG1VGX

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