



# Headquarters - Info - Line

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The New Zealand Association of  
Radio Transmitters Incorporated



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Greetings Everyone,

Welcome to **Headquarters-Info-Line** a fortnightly bulletin of news from NZART Headquarters E-mailed directly to Branches.

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## **NZART Business Manager Debby ZL2TDM Says:**

**All Branch Exam Supervisors** - Please pass this on to all the branch Exam Supervisors. Once an exam has been successfully completed and the candidate has been given the Official form, please forward the candidate record form to me. I need this to verify that the candidate has passed, if the MED should query it.

Please also include the ERN number on this record form in the "NZART Receipt number area". This is my record of that official form having been issued. If in doubt please contact me.

Once the candidate has passed and you have issued the ERN form, please give them a copy of the Radio Spectrum Radio 1 application form. This is then sent by the candidate to one of the offices listed, in order for them to receive their call sign. Under no circumstances is this or the ERN form sent to me.

Lastly re exams – there is no charge for the morse exam and it is discretionary in each branch, should you wish to recharge for a failed result and the candidate resits. Please remember we are here to encourage not discourage.

**Call Book 2004 on CD Rom** - As I said in the last issue of HQ Info-line, Call Book on CD Rom will be available in 2004. This will be offered in **addition** to the hard copy, not **instead** of. It will not be available for purchase nor will it be offered to non-members of NZART.

All current financial members will receive their hard copy. Take this opportunity to complete the coupon on the next Break In label and order your free CD Rom for next year.

**Bye for now**

## **WRC 2003 - Other agenda items of concern to the IARU**

**by J K Pulfer VE3PU :**

While the majority of members of the IARU delegation focused on the important amateur issues of regulations and the realignment of 40 metres, as well as the preparation of the agenda for the next conference, I spent most of my time monitoring the many committees and drafting groups dealing with eight other agenda items which were also of concern to the IARU. Below is a brief report summarising the significant developments related to these agenda items

**Agenda Item 1.3 - Harmonized Bands for Public Protection and Disaster Relief (PPDR)** - This agenda item surfaced in the lead up to WRC-2000 when commercial interests promoting harmonized frequencies for public services realised that adding disaster relief would strengthen their arguments. They managed to convince some administrations to support them. At WRC-2000, Resolution 645 was introduced calling for Global Harmonisation of Spectrum for Public Protection and Disaster Relief, and asking that studies be carried out by the ITU-R. Working Party 8A conducted the studies in preparation for WRC-2003.

The IARU was concerned with two aspects of PPDR developments at WRC-2003 - the identification of bands or frequencies that might affect amateurs, and the CEPT concept of a "tuning range" in the band 390 to 470 MHz. CEPT wants to standardise equipment that can operate at any frequency used by any of its member countries within this range, and also wanted to impose this idea on the rest of the world. CITEL countries on the other hand are focusing on the 880 MHz band as well as some 700 MHz spectrum from the UHF TV allocation, expected to become available when digital transmission is introduced in this frequency range.

At WRC 03, the concept of a tuning range was not accepted. In the end, bands identified for PPDR do not affect amateurs. A new Resolution was approved by WRC-2003, for introducing the necessary changes to the Radio Regulations and calling for ongoing technical studies for implementing harmonised PPDR. No changes to frequency allocations were proposed. On the positive side, the Resolution contains references to the role that the amateur services play in disaster communications, and encourages removal of administrative barriers to cross border movement of disaster communications equipment.

**Agenda Item 1.5 - Allocations to Wireless LANs at 5 GHz** - Agenda item 1.5 dealt with allocations to a number of services in the 5 GHz band, of which the most difficult and controversial were related to a proposed primary allocation to the mobile service to be used by devices permitting wireless connections within computer networks (which I will refer to as WLANs). To date, most such devices operate in the 2.4 GHz band, but already at the WRC, many delegates were using dual-band cards in their laptops, because the 5 GHz network was faster and, in general, easier to access

There is the potential that emissions from very large numbers of such devices, numbering in the millions, will interfere with commercial satellite receivers, and so this issue was hotly debated. To further complicate the issue, some Region 2 countries including Canada wish to allow such cards to be connected to outside high gain antennas, so that they can extend local networks to provide communications between computers in different buildings.

The IARU's main concern was to ensure that both indoor and outdoor WLAN transmitters would not cause significant problems for the amateur and amateur satellite services in this band. (Since our allocation is secondary, we must accept such interference). WRC 03 decisions imposed new restrictions on 5 GHz WLAN power and antenna gain to protect other services and should also afford us a good deal of protection. So, although the primary mobile allocations were approved, they are not expected to cause us much harm.

**5.3 Agenda Item 1.8 - Issues Related to Unwanted Emissions** - There were two aspects of this agenda item of interest to the IARU.

The first relates to spurious emissions, that is, signals produced by a transmitter at some frequency outside the allocated band (often harmonics), which may interfere with other receivers. There are international regulations setting limits on such spurious emissions, and the levels for amateur transmitters are clearly defined. We are interested in ensuring that these limits are not tightened to the point where home constructed amateur equipment could not meet them. The very sensitive receivers used by radio astronomers and remote sensing satellites are susceptible to spurious emissions, and users of those services are continually trying to update the limits to provide additional protection. This topic was not a major issue for us at this conference.

A second problem is concerned with what amateurs call "splatter". In other words, a poorly designed or operated amateur transmitter can cause interference to other amateurs using a nearby frequency. To date, there have been no international regulations governing the level of such splatter, although the radio astronomers and passive sensor people have been trying hard to see such regulations put into effect.

The threat to amateurs occurs when one of our bands is immediately adjacent to a passive sensor band, and amateurs operating near the band edge might cause problems. With support from the Canadian delegation, we were able to ensure that none of the amateur bands were mentioned in any new regulatory constraints approved at the conference. There are however, two 2007 agenda items related to ongoing studies of such band pairs, and these should be monitored in the ITU-R

**Agenda Item 1.12 - Allocations and Regulatory Issues for the Space Science Services** - This agenda item proposed an allocation of up to 3 MHz, in the range below 1 GHz, for uplink control signals used in deep space operations. Our concern was possible new allocations in the 144, 220, and 440 MHz bands. A new allocation was proposed to the WRC, at 260 MHz, to meet the needs of Russia and a few neighbouring countries. Finland and Lithuania as well as the Arab countries opposed the allocation, but eventually their concerns were met and the allocation was approved. There are no adverse effects for amateur radio foreseen.

**Agenda Item 1.15 - Radio Navigation Satellite Service (RNSS) Issues** - The Radio Navigation Satellite Service, or RNSS, (better known to most people as GPS, or Global Positioning Systems), operates in several bands between 1100 and 1300 MHz. There are two other RNSS systems that occupy this band, the Russian GLONASS system, and a proposed new European system named GALILEO.

The GALILEO allocation between 1260 and 1300 MHz (approved at WRC 2000) overlaps our amateur and amateur satellite allocations, but to date does not pose much of a threat. However, other spectrum users such as airborne and ground based radars are more concerned.

The issue to be settled at this conference was, what limits or constraints, if any, should be placed on GPS and GALILEO satellites to protect the other services? After much heated debate, it was agreed that existing GPS systems put into operation before 2000 would not be subject to constraints, but that limits would be imposed on all new systems. From an amateur point of view, these new constraints will just provide a little extra protection for us as well, and so this decision was a positive one from our point of view.

**Agenda Item 1.16 - Allocations for Feeder Links to Little LEOs below 1.4 GHz**

The so-called “little LEO” (Low Earth Orbit) satellite systems are commercial versions of amateur digital, store-and-forward, messaging satellites. They are still looking for worldwide spectrum allocations in which to operate. This is a serious concern for the IARU since, as we know, in preparation for the WRC 97, the little LEO proponents wanted to use the two metre amateur band and only after vigorous opposition, dropped the proposal. At this conference, the USA, backed by a few third world countries proposed spectrum allocations for “feeder links” (i.e. control signals) around 1400-1600 MHz, and “service links” (i.e. up-bound data links) around 450 MHz. They already have frequency allocations for downward data links. The feeder link proposal was strongly opposed by most countries, since the frequencies around 1400 to 1600 MHz are extremely heavily used by many services. In spite of this opposition, the US succeeded in getting allocations provisionally approved, subject to the conduct of more studies to demonstrate that there will be no interference. If these studies are successful, the allocation may be put into effect at the next conference. We must continue to monitor this item, because if they succeed with the feeder links, then the need for service links will not go away.

**Agenda Item 1.20 - Allocations Below 1 GHz for Little LEO Service uplinks - At**

this WRC, there was also a little LEO agenda item looking for up to 7 MHz of spectrum below 1 GHz for service links. The specific US proposal was focused on a band just above 450 MHz, - uncomfortably close to our 70 cm band. Opposition to this proposal was also extremely strong, and during the pre-conference ITU-R studies, we were able to get virtually all countries to recommend “no allocation”. To our surprise, the Little LEO proponents in the USA decided to give up early on this one, and the “no change” proposal was rapidly approved in committees. The fact that the proponents fought long and hard, and eventually succeeded on the feeder link question under Agenda Item 1.16 however, is a clear warning that we can expect another onslaught on the VHF bands at a future conference.

**Agenda Item 1.38 - Synthetic Aperture Radars in the 70 cm Band - During the**

past seven years, ITU studies have been conducted concerning the possibility of sharing the 420-470 MHz band between a proposed new allocation, to be used by satellite borne synthetic aperture radars (SARs) to measure ground moisture, and other existing users in the range. These users include ground-based, ship and airborne radars, fixed and mobile operators, and a variety of other smaller users, such as amateur radio, wind profiler radars and rocket launch vehicle destruct systems.

The studies, in which the IARU was one of the major players, concluded in early 2003, with a technical description of the constraints on the SAR design necessary to ensure minimum interference. These constraints were contained in a revised ITU Recommendation that was approved just before the WRC. Many countries, to meet perceived environmental needs, came to the WRC with proposals for a secondary SAR allocation, subject to the approved constraints. ESA, NASA and the Canadian Space Agency were also strongly supportive. Furthermore, fixed and mobile interests in most administrations succeeded in focusing the proposals on the range 432-438 MHz, in spite of evidence that all existing services would be protected by the constraints. On the world scale, there was very little opposition to the allocation, with only the USA and a couple of South American countries openly opposing and a few countries such as India and some of the Arab bloc prepared to put up an argument. The IARU also vigorously opposed, but had no right to speak at the conference.

Because VE3PU had chaired the ITU-R drafting group working on the sharing studies for many years, he was in fact given several opportunities to voice the IARU objections, but of course they carried little weight in the final decision. The US opposition faded away early in the discussions, as did the Arab objections and the allocation was one of the firsts to reach plenary. Although the allocation will go ahead, it is unlikely that a SAR will be launched before 2010, if ever, and if it does eventually fly, we feel confident that the design constraints will ensure that most amateurs will never see any significant interference in our weak signal or satellite bands at 432 and 435-438 MHz.

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### **Contests with Stan White ZL2ST:**

The next local contest is the Waitakere SSB Sprint on 80 metres next Saturday July 26 between 1000 and 1100 UTC (ie 10-11 pm NZT). The CW event is a week later on August 2<sup>nd</sup> at the same time. Go for it and test your skill. Exchange serial numbers only. For details see the May/June Break In, the Callbook or the NZART website.

### **Other contests are:**

July 26/27 0000-2400 UTC (Sat/Sun) Russian Worldwide RTTY Contest

July 26/27 1200-1200 UTC (Sat/Sun) RSGB IOTA HF SSB Contest

August 9/10 0000-2400 UTC (Sat/Sun) WAE (Europe) DX CW Contest

### **Contest results:**

The results of the Oceania, Sangster and VK/Tasman contests are now available on the NZART and VK/Tasman websites and are attached to this Info Line as files (2 for the VK Trans Tasman). In the Oceania events VKs dominated the Oceania continent top positions but ZL6QH top scored in the phone and CW multi-multi section and ZL2AMA top scored on 80 metres phone. Congratulations to these and the other top scorers. In the phone event ZL1TM was the top ZL operator with over 1 million points, while in the CW event ZL1GO, ZL2BR and ZL2AZ scored over 1 million. Participation in the VK trans Tasman events was up from 41 last year to 74 this year (45 SSB, 29 CW) - well done ZL. VKs were static at 152. In the overall results ZL4DX was second in the SSB event and ZL2RX top scored in the CW event. ZL2TW/qrp was third in the overall CW and first QRP. Congratulations.

## **Branch Spot - Otago Branch 30 News from Lindsey Ross ZL4KS:**

To celebrate a significant milestone of Amateur Radio in New Zealand, the Otago Branch of the NZART, will celebrate its 75 years this August.

The occasion will be marked by a special callsign ZM4A that will operate on all bands during August with a commemorative QSL card being sent to all confirmed contacts.

The anniversary celebrations will also include a display of early home brew through to present day equipment at the Dunedin Community Art Gallery in the centre of the Dunedin on the anniversary date, Saturday, August 9, 2003. It will provide a base for present and former members to meet and discuss their experiences over the years.

The display will also be open to the public from 10am, with formalities taking place at around 3:30pm. Registration is not necessary, but those out of Dunedin may wish to indicate their intentions.

Everyone is welcome.

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### **Dates To Remember:**

- **Next NZART Official Broadcast 8pm & 9pm on Sunday 27<sup>th</sup> July**
- **Next HQ-Info-Line e-mailed on Sunday 3<sup>rd</sup> August**

73

*Jim Meachen ZL2BHF*

**Editor**

## VK/ trans-Tasman Contest - 2003

### Provisional post Contest Analysis:

#### 1. Participation:

226 stations participated (compared to 222 in 2001, and 188 last year).

This comprises all Categories.

0 X VK1	(1 last year)	25 X ZL1	(16 last year)
36 X VK2	(41 " " )	25 X ZL2	(14 " " )
40 X VK3	(55 " " )	6 X ZL3	( 4 " " )- poor
31 X VK4	(11 " " )- good	18 X ZL4	( 7 " " )- good
16 X VK5	(13 " " )		
8 X VK6	(13 " " )		* ZL's increased from 41 last year, to 74.
19 X VK7	(11 " " )		* VK's static at 147 (same as last year).
2 X VK8	( 2 " " )		* 152 VK's and 74 ZL's took part.

#### 2. "Participation Factor:

Why ? There are 4 ZL call areas, and 4 VK/East call areas (the same distance apart). However, all is not equal, -

There were 45 ZL participants compared to 96 VK/East. - also, ZL's can score "over-seas call-area" bonus points, by grouping VK5's, VK8's, and VK6's -

So it is easier for ZL's to form "groups" of VK's, than it is for VK's to form groups of ZL's.

The fairest way to correct this imbalance is to create a compensating factor - "ZL stations divided by VK's".

a). PHONE:  $45 \text{ ZL's} \div 117 \text{ VK's} = 0.38$ .  
All ZL "over-seas call-area" group bonus points were multiplied by 0.38.

b). CW:  $29 \text{ ZL's} \div 35 \text{ VK's} = 0.83$ .  
All ZL "over-seas call-area" group bonus points were multiplied by 0.83.

Note: This factor was not applied to ZL bonus points scored by working groups of ZL's.

The results seem to indicate that the scoring system is now a "fairly level playing field" - eg: the first 8 Phone scores show the following statistics:

VK4SN	score: 2639	contacts: 229	av pts per contact : 11.52
ZL4DX	2586	220	11.75
VK2CZ	2563	230	11.14
ZL3RE	2530	228	11.10
VK3IO	2398	201	11.93
VK2AKB	2117	187	11.32
VK2NMO	2101	203	10.35
ZL4AD	2064	199	10.37

- 2 X ZL's and 2 X VK's in first four places, and only 109 pts, and 10 contacts between them.

#### 3. Logs received:

a). In 2001, Contest promotion was limited to Amateur news broadcasts and radio mags. 38 logs were received. (17% of participants).

In 2002, additional promotion by email to about 500 Amateurs/Clubs. 59 logs were received (despite participation drop). (31% of participants - many reminded by Contest Manager).

In 2003, additional promotion by email to about 1500 Amateurs/Clubs, + avoided NZ Queen's Birthday/NZART Conference weekend, + Phone and CW on separate nights.  
60 logs were received (26% of participants).  
50 VK/ZL Clubs were emailed. Only one responded, and none participated (despite rule change making "multi-operator" entries eligible for the trophy.  
Only 1 "multi-operator" entry was received).

Allowing that about 25% of participants are not really competing (just giving out a few numbers), the return of logs this year was more realistically about 35% of competitors.  
This suggests that the other 65% have little regard for the future of the Contest, or the time, effort and expense provided by the Contest Manager. - Or they just forget, or can't be bothered going to the trouble after they have had their fun, and the night is over. Some probably don't bother if they are not in line for a prize. Stations that have nearly 240 contacts (more than the Winner), and don't submit a log, make the task of running the Contest, exasperating.

A slight drop in participation since the first 2001 Contest, and a percentage drop in log returns since last year, - despite the increased promotion and initiatives to improve the Contest, is disappointing, to say the least. - It is probably indicative of the decline in the hobby, that this trend cannot be arrested. The result this year is "marginal", and unless the trend improves next year, 2004 may well be the last VK/ trans-Tasman Contest.

b). Of the 60 logs received, 16 worked the full 6 hours (15 in 2002).

, 16 worked 5 "

\* 53% worked at least 5 hours (ie: 32, -11 of whom sent logs last year.) - \* The other 194 participants weren't trying. \* Is it worth having the Contest, if only 32 are trying to win?

\* 25 of the 60 logs were from stations that submitted logs last year. (meaning 42% who logged in, are "regulars", who submit their logs).

#### 4. Changes for 2004:

##### a). Scoring:

Only about 10% of logs received showed a full understanding of the "Scoring Rule". While this suggests that the Rule is too complicated, checking logs suggested that more often it could be put down to either -

\* not observing the "helpful hint" at the start of the Rules

\* not reading the Rule thoroughly.

\* inability to comprehend what is written.

\* poor basic arithmetical skills.

This is despite re-wording of the "call-area bonus points" explanation, and the inclusion of a basic example.

However, while it is not easy to simplify the Rule, without diminishing one of the more interesting aspects of the Contest, the following initiatives will be included next year:

\* Improve the basic example (shown under the scoring rule ).

\* Publish a sample, scored log sheet on the Contest web-site.

##### b). Logging:

If a suitable computer logging program can be found/adapted to the scoring system, it will be published on the Contest web-site.

If anyone can assist with this, please contact the Contest Manager on email:

vktasman@hotmail.com



# 2003 VK/ trans-Tasman Contest

## Complete Final Results:

### "Participation factor":

**PHONE:** 45 ZL;s, and 117 VK's participated.  $45/117 = 0.38$ . All ZL "overseas call-area" group bonus points were reduced by multiplying by 0.38.

**CW:** 29 ZL's and 35 VK's participated.  $29/35 = 0.83$ . All ZL "overseas call-area" group bonus points were reduced by multiplying by 0.83.

Category 1 (PHONE)		Category 2 (QRP Phone)		Category 5 (SWL)		Category 3 ( CW )	
VK4SN	2639	VK7NDO	1686	VK3XRX	1984	ZL2RX	1155
ZL4DX	2586				(only entry)	VK2UQ	826
VK2CZ	2563	VK7HL	548			ZL2TW/Q	622
		VK2AVQ	344				
ZL3RE	2519	VK2JDD	223			VK3MV	599
VK3IO	2398	VK2QQ	172			VK3BBT	523
VK2AKB	2121					ZL2TX	491
ZL4AD	2064					ZL1AIH	486
VK7VH	1945					VK4BCM	456
ZL4IQ	1846					ZL1ALZ	341check log
ZL2RX	1797					VK6AFW	305
ZL4OL	1752					VK5BLS/Q	290
ZL2AUB	1730					VK2AVQ/Q	229
VK2JAH	1707					ZL2AJB	214check log
VK2LCD	1693					VK8AV	189
VK7NDO/q	1686					VK2MQX	154
ZL2AJB	1496					ZL1TM	74
VK3UP	1443					VK2KM	64
ZL1BRY	1312					ZL4IM	46
ZL2ALW	1116					ZL1VJ	25
VK3KMB	1017					VK7VH	3
ZL4IM	899						
VK2ASU	763						
						<b>Category 4 ( QRP/CW )</b>	
VK8NJ/p5	726						
VK5EMI	654						
VK5KMC	614					ZL2TW	622
ZL4AR	601						

VK2LEE	538					VK5BLS	290
VK6ADI	536					VK2AVQ	229
ZL3DW	483						
VK5AIM	347						
VK3BSE	311						
ZL1VJ	302						
VK3KDT	274						
VK2JHN	260						
VK5ATQ	207						
ZL2DJC	195						
VK2BEL	98						

## Introduction

Congratulations to all the winners in the 2002 Oceania DX Contest. Activity has again increased in 2002 compared to 2001 however there was a decrease in SSB logs of some 3 % and an increase in CW logs by 22%. Whilst the conditions seemed to be poorer than the previous year, as may well be expected as we head down the declining slope of cycle 23, scores were quite high with some strong activity and competition from Europe.

The complete results for the contest are contained in the attached tables. For the first time we have included the top ten score for each continent and also a top ten box for non-Oceania participants. A summary of the best scores for each Mode, Band and Continent is detailed below.

2002 SSB Continent Leaders						
Contest Category	ASIA	EUROPE	NORTH AMERICA	OCEANIA	SOUTH AMERICA	NON - OCEANIA
SWL	UA0-107-181	UA3-155-75				UA0-107-181
Single-Op All	JH4UYB	ER4DX	K3ZO	VK4EMM	PY2NA	JH4UYB
Single-Op 80m	JG1IGX			ZL2AMA		JG1IGX
Single-Op 40m		PA3EPN	K3TW	VK1MJ		PA3EPN
Single-Op 20m	JA7DOT	DL7CX		VK2APK	LU9JX	JA7DOT
Single-Op 15m	JR9NVB	UA3DEE		VK8DK	L44DX	JR9NVB
Single-Op 10m	JA6EFT	UA6ADC	NA2X	VK4NEF		JA6EFT
Multi-One	RW9C	RW2F		VK8DA	R1ANC	RW9C
Multi-Multi				ZL6QH		

The rural station of VK4EMM took out the phone contest with a sterling effort. Plenty of skill as well as dedication is required to rack up a score like John's. As well as the top scores we were graced with a little more activity from other than the usual VKs and ZLs with activity from 4W, 3D2, YB, DU, 9M6, KH2 and others.

As might be expected most of the Non-Oceania top scores were from Asia. With propagation declining the North/South path is likely to yield the best overall conditions. Congratulations to PA3EPN a keen contester, present in many of the big ones, who managed to achieve a top score from Europe on the very tough 40m band.

2002 CW Continent Leaders						
Contest Category	ASIA	EUROPE	NORTH AMERICA	OCEANIA	SOUTH AMERICA	NON - OCEANIA
SWL	UA0-107-181	YZ1KVA-SWL				
Single-Op All	UA0LCZ	UT7QF	N6RO	KH6ND	LU1EWL	N6RO
Single-Op 80m				VK3TZ		

Single-Op 40m	JA3HBF	OK2BVG	K3TW			JA3HBF
Single-Op 20m	JA7DOT	SP5CJQ	W7KPL	VK2APK		SP5CJQ
Single-Op 15m	JA1BBA	DJ5GG	K9ALP	VK2KM	PY7OJ	JA1BBA
Single-Op 10m	JA1PS	UA6ADC	W1END	VK4TT		JA1PS
Multi-One	RW9C	UT7L				UT7L
Multi-Multi				ZL6QH	R1ANC	R1ANC

KH6ND took out the top score this year, just edging out John, VK4EMM who nearly took out the double! Only, the points awarded for band contacts really separated the two fine CW ops, with John having more mults and more QSOs but less points. The competition in the CW contest was hot! With around 287 logs submitted, and over half from Europe, CW is certainly alive and well.

In the CW section again, the Non-Oceania scores were mainly by Asian stations with the JAs well in front on 10 and 15m. Special mention to Dick, N6RO another one of those die-hard contesters who managed to top out the rest with the top all-band Non-Oceania score. A tough ask with not too many beams pointed his way.

#### **Awards and Plaque Winners**

The Awards for the 2002 contest are unchanged and the worthy recipients are listed in the following table. John, VK4EMM takes out both the SSB and CW trophies with some very high scores. It would however be remiss not to mention that the top CW score from Oceania was by KH6ND, and the crew at ZL6QH once again produced some amazing results as the only Multi-Multi from Oceania. Is there a gang out there in VK who are willing to give those Kiwis a “spot of competition”?

<b>2002 TROPHY AND PLAQUE WINNERS</b>		
<b>AWARD</b>	<b>DESCRIPTION</b>	<b>RECIPIENT</b>
ZL2TT Trophy	Top entrant from Oceania in Single Operator All Band Phone category - in memory of Ron Wills ZL2TT, sponsored by ZL2GI, ZL2AL, Wellington Amateur Radio Club and NZART	VK4EMM
VK5/VK8 SOAB Phone Plaque	Top entrant from VK5 or VK8 Call areas in Single Operator All Band Phone category, sponsored by WIA South Australian Division	VK5GN
VK7 SOAB Phone Plaque	Top entrant from VK7 Call area in Single Operator All Band Phone category, sponsored by WIA Tasmania	Not Awarded

	Division	
VK2QL Trophy	Top entrant from Australia in Single Operator All Band CW category - in memory of Frank Hine VK2QL, sponsored by WIA Federal.	VK4EMM
VK5/VK8 SOAB CW Plaque	Top entrant from VK5 or VK8 Call areas in Single Operator All Band CW category, sponsored by WIA South Australian Division	VK5GN
N6RO Plaque	Top entrant from North America in Single Operator All Band Phone category, sponsored by N6RO	K3ZO
ASIA SOAB Phone Plaque	Top entrant from Asia in Single Operator All Band Phone category, sponsored by the Eastern and Mountain Districts Radio Club, VK3.	JH4UYB
ASIA SOAB CW Plaque	Top entrant from Asia in Single Operator All Band CW category, sponsored by the Eastern and Mountain Districts Radio Club, VK3.	UA0LCZ

### **Participation**

The following table shows the number of logs received from each continent in 200, 2001 and 2002. The committee is pleased, if not a little surprised to see that the CW contest has moved ahead in participation rate than the SSB contest. The number of log entries in the SSB Contest has declined a few percent, but the CW contest shows a growth of 22 %, with the overall participation for the combined contests up 9.3%. Hopefully the decline in the Sunspot activity will not deter competitors from submitting entries in 2003.

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<b>SSB RESULTS</b>						
<i>Single Operator</i>						
<b>OCEANIA</b>						
<i>Australia</i>						
<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<i>VK4EMM</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,813,776</i>	<i>1461</i>	<i>3626</i>	<i>776</i>
<i>VK5GN</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,551,020</i>	<i>1599</i>	<i>3111</i>	<i>820</i>
<i>VK2FHN</i>	<i>ALL</i>	<i>HIGH</i>	<i>985,566</i>	<i>990</i>	<i>1779</i>	<i>554</i>
<i>VK2CZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>711,018</i>	<i>666</i>	<i>1701</i>	<i>418</i>
<i>VK4UC</i>	<i>ALL</i>	<i>HIGH</i>	<i>471,472</i>	<i>583</i>	<i>1264</i>	<i>373</i>
<i>VK4DX</i>	<i>ALL</i>	<i>LOW</i>	<i>419,482</i>	<i>677</i>	<i>1162</i>	<i>361</i>
<i>VK8DK</i>	<i>15M</i>	<i>LOW</i>	<i>393,790</i>	<i>743</i>	<i>1486</i>	<i>265</i>
<i>VK3TZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>267,220</i>	<i>431</i>	<i>862</i>	<i>310</i>
<i>VK6NU</i>	<i>ALL</i>	<i>LOW</i>	<i>263,937</i>	<i>408</i>	<i>907</i>	<i>291</i>
<i>VK4NEF</i>	<i>10M</i>	<i>LOW</i>	<i>205,590</i>	<i>385</i>	<i>1155</i>	<i>178</i>
<i>VK2XT</i>	<i>15M</i>	<i>HIGH</i>	<i>198,268</i>	<i>511</i>	<i>1022</i>	<i>194</i>
<i>VK2APK</i>	<i>20M</i>	<i>HIGH</i>	<i>101,680</i>	<i>410</i>	<i>410</i>	<i>248</i>
<i>VK2VZQ</i>	<i>15M</i>	<i>LOW</i>	<i>96,570</i>	<i>333</i>	<i>666</i>	<i>145</i>
<i>VK4ADC</i>	<i>20M</i>	<i>HIGH</i>	<i>93,252</i>	<i>409</i>	<i>409</i>	<i>228</i>
<i>VK4BAY</i>	<i>ALL</i>	<i>HIGH</i>	<i>84,108</i>	<i>221</i>	<i>516</i>	<i>163</i>
<i>VK3VP</i>	<i>ALL</i>	<i>LOW</i>	<i>67,932</i>	<i>164</i>	<i>999</i>	<i>68</i>
<i>VK3BGH</i>	<i>ALL</i>	<i>LOW</i>	<i>54,932</i>	<i>188</i>	<i>443</i>	<i>124</i>
<i>VK2AYD</i>	<i>20M</i>	<i>LOW</i>	<i>41,912</i>	<i>248</i>	<i>248</i>	<i>169</i>
<i>VK5KCX</i>	<i>ALL</i>	<i>HIGH</i>	<i>8,370</i>	<i>68</i>	<i>155</i>	<i>54</i>
<i>VK1MJ</i>	<i>40M</i>	<i>HIGH</i>	<i>5,950</i>	<i>35</i>	<i>175</i>	<i>34</i>
<i>VKK3PRA</i>	<i>15M</i>	<i>HIGH</i>	<i>5,166</i>	<i>63</i>	<i>126</i>	<i>41</i>
<i>VK4FJ</i>	<i>ALL</i>	<i>LOW</i>	<i>3,780</i>	<i>45</i>	<i>90</i>	<i>42</i>
<i>East Timor</i>						
<i>4W6MM</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,407,860</i>	<i>1607</i>	<i>3510</i>	<i>686</i>
<i>Guam</i>						
<i>NH2PW</i>	<i>20M</i>	<i>HIGH</i>	<i>418</i>	<i>22</i>	<i>22</i>	<i>19</i>
<i>Indonesia</i>						
<i>YB2OBL</i>	<i>15M</i>	<i>LOW</i>	<i>158,240</i>	<i>368</i>	<i>736</i>	<i>215</i>
<i>YC7SKM</i>	<i>15M</i>	<i>HIGH</i>	<i>116,424</i>	<i>308</i>	<i>616</i>	<i>189</i>
<i>YC4FIJ</i>	<i>15M</i>	<i>HIGH</i>	<i>20,470</i>	<i>115</i>	<i>230</i>	<i>89</i>
<i>YB2MTA</i>	<i>15M</i>	<i>LOW</i>	<i>9,052</i>	<i>73</i>	<i>146</i>	<i>62</i>
<i>YC2ECG</i>	<i>15M</i>	<i>HIGH</i>	<i>3,500</i>	<i>50</i>	<i>100</i>	<i>35</i>
<i>New Zealand</i>						
<i>ZL1TM</i>	<i>ALL</i>	<i>LOW</i>	<i>1,233,674</i>	<i>1042</i>	<i>2063</i>	<i>598</i>
<i>ZL1ALZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>351,880</i>	<i>683</i>	<i>926</i>	<i>380</i>
<i>ZL3GA</i>	<i>ALL</i>	<i>LOW</i>	<i>117,586</i>	<i>326</i>	<i>518</i>	<i>227</i>
<i>ZL4AS</i>	<i>ALL</i>	<i>HIGH</i>	<i>103,246</i>	<i>290</i>	<i>494</i>	<i>209</i>
<i>ZL1ANH</i>	<i>ALL</i>	<i>LOW</i>	<i>58,032</i>	<i>246</i>	<i>372</i>	<i>156</i>
<i>ZL1BYZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>38,041</i>	<i>152</i>	<i>349</i>	<i>109</i>

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<i>ZL2CD</i>	<i>ALL</i>	<i>HIGH</i>	<i>21,894</i>	<i>125</i>	<i>267</i>	<i>82</i>
<i>ZL2LF</i>	<i>ALL</i>	<i>HIGH</i>	<i>20,394</i>	<i>159</i>	<i>198</i>	<i>103</i>
<i>ZL1IM</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,239</i>	<i>70</i>	<i>127</i>	<i>57</i>
<i>ZL3DW</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,728</i>	<i>40</i>	<i>48</i>	<i>36</i>
<i>ZL2AMA</i>	<i>80M</i>	<i>HIGH</i>	<i>1,680</i>	<i>24</i>	<i>240</i>	<i>7</i>
<i>Philippines</i>						
<i>4D70SAN</i>	<i>20M</i>	<i>LOW</i>	<i>1,218</i>	<i>42</i>	<i>42</i>	<i>29</i>
<b>ASIA</b>						
<i>Asiatic Russia</i>						
<i>UA0LCZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,371</i>	<i>70</i>	<i>131</i>	<i>41</i>
<i>RN9HM</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,916</i>	<i>54</i>	<i>108</i>	<i>27</i>
<i>UA0FBS</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,700</i>	<i>50</i>	<i>100</i>	<i>27</i>
<i>UA9LP</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,697</i>	<i>49</i>	<i>93</i>	<i>29</i>
<i>RA9AU</i>	<i>ALL</i>	<i>LOW</i>	<i>1,220</i>	<i>29</i>	<i>61</i>	<i>20</i>
<i>UA9HR</i>	<i>ALL</i>	<i>HIGH</i>	<i>480</i>	<i>19</i>	<i>40</i>	<i>12</i>
<i>UA0IV</i>	<i>ALL</i>	<i>LOW</i>	<i>468</i>	<i>29</i>	<i>36</i>	<i>13</i>
<i>RZ9ZR</i>	<i>ALL</i>	<i>HIGH</i>	<i>320</i>	<i>13</i>	<i>32</i>	<i>10</i>
<i>UA9LGL</i>	<i>15M</i>	<i>LOW</i>	<i>128</i>	<i>8</i>	<i>16</i>	<i>8</i>
<i>RZ9IB</i>	<i>ALL</i>	<i>LOW</i>	<i>84</i>	<i>7</i>	<i>14</i>	<i>6</i>
<i>RA9ST</i>	<i>15M</i>	<i>HIGH</i>	<i>60</i>	<i>6</i>	<i>12</i>	<i>5</i>
<i>RA0CL</i>	<i>20M</i>	<i>HIGH</i>	<i>36</i>	<i>6</i>	<i>6</i>	<i>6</i>
<i>UA9XF</i>	<i>ALL</i>	<i>LOW</i>	<i>32</i>	<i>4</i>	<i>8</i>	<i>4</i>
<i>UA9QFF</i>	<i>10M</i>	<i>LOW</i>	<i>3</i>	<i>1</i>	<i>3</i>	<i>1</i>
<i>Hong Kong</i>						
<i>VR2BG</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,040</i>	<i>26</i>	<i>65</i>	<i>16</i>
<i>India</i>						
<i>VU3DJQ</i>	<i>20M</i>	<i>LOW</i>	<i>35</i>	<i>7</i>	<i>7</i>	<i>5</i>
<i>Japan</i>						
<i>JH4UYB</i>	<i>ALL</i>	<i>HIGH</i>	<i>44,772</i>	<i>208</i>	<i>533</i>	<i>84</i>
<i>JK1OLT</i>	<i>ALL</i>	<i>HIGH</i>	<i>34,602</i>	<i>175</i>	<i>438</i>	<i>79</i>
<i>JA3AOP</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,420</i>	<i>96</i>	<i>230</i>	<i>54</i>
<i>JH1KLN</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,400</i>	<i>70</i>	<i>135</i>	<i>40</i>
<i>JA7ODY</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,282</i>	<i>63</i>	<i>139</i>	<i>38</i>
<i>JA1BBA</i>	<i>ALL</i>	<i>LOW</i>	<i>5,092</i>	<i>66</i>	<i>134</i>	<i>38</i>
<i>JM1XCW</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,896</i>	<i>70</i>	<i>144</i>	<i>34</i>
<i>JM1GHT</i>	<i>ALL</i>	<i>LOW</i>	<i>3,380</i>	<i>49</i>	<i>130</i>	<i>26</i>
<i>JA0VHI</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,688</i>	<i>37</i>	<i>112</i>	<i>24</i>
<i>JA2GHP</i>	<i>ALL</i>	<i>LOW</i>	<i>2,304</i>	<i>40</i>	<i>96</i>	<i>24</i>
<i>JJ3OOZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,112</i>	<i>43</i>	<i>88</i>	<i>24</i>
<i>JR9NVB</i>	<i>15M</i>	<i>HIGH</i>	<i>2,024</i>	<i>44</i>	<i>88</i>	<i>23</i>
<i>JA1H FY</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,872</i>	<i>38</i>	<i>78</i>	<i>24</i>
<i>JE1PJR</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,480</i>	<i>30</i>	<i>74</i>	<i>20</i>
<i>JA1GYO</i>	<i>ALL</i>	<i>LOW</i>	<i>1,386</i>	<i>37</i>	<i>66</i>	<i>21</i>
<i>JA6QDU</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,292</i>	<i>30</i>	<i>76</i>	<i>17</i>
<i>JA1IZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,254</i>	<i>32</i>	<i>66</i>	<i>19</i>
<i>JA1KK</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,240</i>	<i>31</i>	<i>62</i>	<i>20</i>
<i>JG2REJ</i>	<i>ALL</i>	<i>HIGH</i>	<i>846</i>	<i>22</i>	<i>47</i>	<i>18</i>

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<i>JA4JJI</i>	<i>15M</i>	<i>HIGH</i>	<i>840</i>	<i>28</i>	<i>56</i>	<i>15</i>
<i>JA1AAT</i>	<i>ALL</i>	<i>HIGH</i>	<i>795</i>	<i>21</i>	<i>53</i>	<i>15</i>
<i>JA4BAA</i>	<i>ALL</i>	<i>HIGH</i>	<i>792</i>	<i>23</i>	<i>44</i>	<i>18</i>
<i>JL7AIA</i>	<i>ALL</i>	<i>HIGH</i>	<i>768</i>	<i>20</i>	<i>48</i>	<i>16</i>
<i>JJ2PUG</i>	<i>15M</i>	<i>HIGH</i>	<i>700</i>	<i>25</i>	<i>50</i>	<i>14</i>
<i>JA7DOT</i>	<i>20M</i>	<i>HIGH</i>	<i>688</i>	<i>43</i>	<i>43</i>	<i>16</i>
<i>JA4AQR</i>	<i>ALL</i>	<i>HIGH</i>	<i>666</i>	<i>26</i>	<i>37</i>	<i>18</i>
<i>JA6EFT</i>	<i>10M</i>	<i>HIGH</i>	<i>627</i>	<i>19</i>	<i>57</i>	<i>11</i>
<i>JR7LVK</i>	<i>15M</i>	<i>HIGH</i>	<i>600</i>	<i>20</i>	<i>40</i>	<i>15</i>
<i>JR1MRG</i>	<i>ALL</i>	<i>HIGH</i>	<i>533</i>	<i>18</i>	<i>41</i>	<i>13</i>
<i>7K2PBB</i>	<i>10M</i>	<i>HIGH</i>	<i>324</i>	<i>12</i>	<i>36</i>	<i>9</i>
<i>7N2UQC</i>	<i>10M</i>	<i>LOW</i>	<i>315</i>	<i>15</i>	<i>45</i>	<i>7</i>
<i>JF3EBO</i>	<i>ALL</i>	<i>HIGH</i>	<i>264</i>	<i>15</i>	<i>24</i>	<i>11</i>
<i>JA9SCB</i>	<i>15M</i>	<i>HIGH</i>	<i>240</i>	<i>12</i>	<i>24</i>	<i>10</i>
<i>JA1XPU</i>	<i>15M</i>	<i>LOW</i>	<i>234</i>	<i>13</i>	<i>26</i>	<i>9</i>
<i>JR2TRC</i>	<i>10M</i>	<i>HIGH</i>	<i>231</i>	<i>11</i>	<i>33</i>	<i>7</i>
<i>JQ2EAN</i>	<i>15M</i>	<i>HIGH</i>	<i>216</i>	<i>12</i>	<i>24</i>	<i>9</i>
<i>JM2RUV</i>	<i>15M</i>	<i>HIGH</i>	<i>216</i>	<i>12</i>	<i>24</i>	<i>9</i>
<i>JQ1AHZ/2</i>	<i>15M</i>	<i>HIGH</i>	<i>192</i>	<i>12</i>	<i>24</i>	<i>8</i>
<i>JM7EPG</i>	<i>20M</i>	<i>HIGH</i>	<i>190</i>	<i>19</i>	<i>19</i>	<i>10</i>
<i>JL3RDC</i>	<i>ALL</i>	<i>LOW</i>	<i>182</i>	<i>10</i>	<i>26</i>	<i>7</i>
<i>JG1IGX</i>	<i>80M</i>	<i>HIGH</i>	<i>160</i>	<i>4</i>	<i>40</i>	<i>4</i>
<i>JG1GCO</i>	<i>ALL</i>	<i>HIGH</i>	<i>133</i>	<i>8</i>	<i>19</i>	<i>7</i>
<i>JE2SOY</i>	<i>10M</i>	<i>HIGH</i>	<i>90</i>	<i>6</i>	<i>18</i>	<i>5</i>
<i>JR3KAH</i>	<i>15M</i>	<i>HIGH</i>	<i>72</i>	<i>6</i>	<i>12</i>	<i>6</i>
<i>JK1BII</i>	<i>15M</i>	<i>LOW</i>	<i>60</i>	<i>6</i>	<i>12</i>	<i>5</i>
<i>JH5OXF</i>	<i>15M</i>	<i>HIGH</i>	<i>32</i>	<i>4</i>	<i>8</i>	<i>4</i>
<i>JG4OHX</i>	<i>20M</i>	<i>HIGH</i>	<i>24</i>	<i>6</i>	<i>6</i>	<i>4</i>
<i>JA2MVW</i>	<i>10M</i>	<i>HIGH</i>	<i>24</i>	<i>4</i>	<i>12</i>	<i>2</i>
<i>Kazakhstan</i>						
<i>UN5PR</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,696</i>	<i>57</i>	<i>112</i>	<i>33</i>
<i>UN9GC</i>	<i>ALL</i>	<i>HIGH</i>	<i>784</i>	<i>25</i>	<i>49</i>	<i>16</i>
<i>UN9LN</i>	<i>15M</i>	<i>HIGH</i>	<i>270</i>	<i>15</i>	<i>30</i>	<i>9</i>
<i>Kyrgyzstan</i>						
<i>EX2T</i>	<i>ALL</i>	<i>HIGH</i>	<i>260</i>	<i>15</i>	<i>26</i>	<i>10</i>
<i>Mongolia</i>						
<i>JT1CO</i>	<i>ALL</i>	<i>HIGH</i>	<i>70</i>	<i>6</i>	<i>14</i>	<i>5</i>
<i>Singapore</i>						
<i>9V1UV</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,662</i>	<i>65</i>	<i>149</i>	<i>38</i>
<b>EUROPE</b>						
<i>Austria</i>						
<i>OE1TKW</i>	<i>20M</i>	<i>HIGH</i>	<i>20</i>	<i>5</i>	<i>5</i>	<i>4</i>
<i>Belarus</i>						
<i>EW6AF</i>	<i>ALL</i>	<i>HIGH</i>	<i>640</i>	<i>27</i>	<i>40</i>	<i>16</i>
<i>EW2AA</i>	<i>ALL</i>	<i>HIGH</i>	<i>319</i>	<i>16</i>	<i>29</i>	<i>11</i>
<i>EW6DX</i>	<i>20M</i>	<i>LOW</i>	<i>112</i>	<i>14</i>	<i>14</i>	<i>8</i>
<i>Belgium</i>						



<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<b>ON4CAS</b>	<i>ALL</i>	<i>HIGH</i>	<b>392</b>	<b>19</b>	<b>28</b>	<b>14</b>
<b>ON4XG</b>	<i>ALL</i>	<i>HIGH</i>	<b>230</b>	<b>16</b>	<b>23</b>	<b>10</b>
<i>Bulgaria</i>						
<b>LZ1UO</b>	<i>ALL</i>	<i>HIGH</i>	<b>1,197</b>	<b>39</b>	<b>57</b>	<b>21</b>
<b>LZ1LZ</b>	<i>ALL</i>	<i>HIGH</i>	<b>240</b>	<b>16</b>	<b>24</b>	<b>10</b>
<b>LZ4UU</b>	<i>20M</i>	<i>HIGH</i>	<b>66</b>	<b>11</b>	<b>11</b>	<b>6</b>
<b>LZ1DM</b>	<i>20M</i>	<i>HIGH</i>	<b>6</b>	<b>3</b>	<b>3</b>	<b>2</b>
<i>Czech Republic</i>						
<b>OK1DVK</b>	<i>20M</i>	<i>HIGH</i>	<b>66</b>	<b>11</b>	<b>11</b>	<b>6</b>
<b>OK2EQ</b>	<i>ALL</i>	<i>HIGH</i>	<b>60</b>	<b>8</b>	<b>10</b>	<b>6</b>
<i>England</i>						
<b>G3VAO</b>	<i>ALL</i>	<i>LOW</i>	<b>1,392</b>	<b>40</b>	<b>58</b>	<b>24</b>
<b>G3JKY</b>	<i>20M</i>	<i>HIGH</i>	<b>9</b>	<b>3</b>	<b>3</b>	<b>3</b>
<i>Estonia</i>						
<b>ES1QD</b>	<i>ALL</i>	<i>HIGH</i>	<b>1,408</b>	<b>42</b>	<b>64</b>	<b>22</b>
<i>European Italy</i>						
<b>IZ4DJZ</b>	<i>ALL</i>	<i>LOW</i>	<b>702</b>	<b>27</b>	<b>39</b>	<b>18</b>
<b>I2WIJ</b>	<i>20M</i>	<i>LOW</i>	<b>112</b>	<b>14</b>	<b>14</b>	<b>8</b>
<b>IK5WGK</b>	<i>20M</i>	<i>HIGH</i>	<b>24</b>	<b>6</b>	<b>6</b>	<b>4</b>
<i>European Russia</i>						
<b>RW1ZA</b>	<i>ALL</i>	<i>HIGH</i>	<b>5,680</b>	<b>78</b>	<b>142</b>	<b>40</b>
<b>RX6LG</b>	<i>ALL</i>	<i>HIGH</i>	<b>2,436</b>	<b>49</b>	<b>84</b>	<b>29</b>
<b>RK3SWB</b>	<i>ALL</i>	<i>HIGH</i>	<b>2,080</b>	<b>44</b>	<b>80</b>	<b>26</b>
<b>RA6AFB</b>	<i>ALL</i>	<i>HIGH</i>	<b>1,496</b>	<b>26</b>	<b>68</b>	<b>22</b>
<b>RX3AAJ</b>	<i>ALL</i>	<i>HIGH</i>	<b>1,386</b>	<b>40</b>	<b>63</b>	<b>22</b>
<b>RN3DN</b>	<i>ALL</i>	<i>LOW</i>	<b>1,083</b>	<b>39</b>	<b>57</b>	<b>19</b>
<b>RN1AO</b>	<i>ALL</i>	<i>HIGH</i>	<b>690</b>	<b>28</b>	<b>46</b>	<b>15</b>
<b>UA3DEE</b>	<i>15M</i>	<i>HIGH</i>	<b>468</b>	<b>18</b>	<b>36</b>	<b>13</b>
<b>UA4LCH</b>	<i>20M</i>	<i>HIGH</i>	<b>378</b>	<b>27</b>	<b>27</b>	<b>14</b>
<b>UA6HON</b>	<i>ALL</i>	<i>LOW</i>	<b>300</b>	<b>19</b>	<b>25</b>	<b>12</b>
<b>RZ3DH</b>	<i>ALL</i>	<i>HIGH</i>	<b>154</b>	<b>12</b>	<b>22</b>	<b>7</b>
<b>RZ3BY</b>	<i>ALL</i>	<i>HIGH</i>	<b>104</b>	<b>9</b>	<b>13</b>	<b>8</b>
<b>UA6ADC</b>	<i>10M</i>	<i>LOW</i>	<b>72</b>	<b>6</b>	<b>18</b>	<b>4</b>
<b>UA1WBV</b>	<i>ALL</i>	<i>LOW</i>	<b>28</b>	<b>5</b>	<b>7</b>	<b>4</b>
<b>RX3AEX</b>	<i>ALL</i>	<i>LOW</i>	<b>9</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>UA4AVN</b>	<i>20M</i>	<i>HIGH</i>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>
<i>Fed. Rep. of Germany</i>						
<b>DM5JBN</b>	<i>ALL</i>	<i>LOW</i>	<b>714</b>	<b>23</b>	<b>42</b>	<b>17</b>
<b>DL7CX</b>	<i>20M</i>	<i>HIGH</i>	<b>456</b>	<b>38</b>	<b>38</b>	<b>12</b>
<b>DL1TC</b>	<i>ALL</i>	<i>HIGH</i>	<b>288</b>	<b>19</b>	<b>24</b>	<b>12</b>
<b>DL1DQY</b>	<i>20M</i>	<i>HIGH</i>	<b>126</b>	<b>14</b>	<b>14</b>	<b>9</b>
<b>DH5WB</b>	<i>15M</i>	<i>LOW</i>	<b>60</b>	<b>6</b>	<b>12</b>	<b>5</b>
<b>DL3ZAI</b>	<i>ALL</i>	<i>HIGH</i>	<b>18</b>	<b>5</b>	<b>6</b>	<b>3</b>
<i>Finland</i>						
<b>OH6IU</b>	<i>ALL</i>	<i>HIGH</i>	<b>969</b>	<b>35</b>	<b>51</b>	<b>19</b>
<b>OH2MO</b>	<i>15M</i>	<i>HIGH</i>	<b>408</b>	<b>17</b>	<b>34</b>	<b>12</b>
<b>OH2HMB</b>	<i>20M</i>	<i>LOW</i>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<i>Hungary</i>						
<b>HG8W</b>	<b>15M</b>	<b>HIGH</b>	<b>64</b>	<b>8</b>	<b>16</b>	<b>4</b>
<i>Lithuania</i>						
<b>LY1DR</b>	<b>ALL</b>	<b>HIGH</b>	<b>2,494</b>	<b>58</b>	<b>86</b>	<b>29</b>
<b>LY2OX</b>	<b>ALL</b>	<b>HIGH</b>	<b>1,872</b>	<b>45</b>	<b>72</b>	<b>26</b>
<i>Moldova</i>						
<b>ER4DX</b>	<b>ALL</b>	<b>HIGH</b>	<b>14,960</b>	<b>119</b>	<b>272</b>	<b>55</b>
<b>ER1QQ</b>	<b>ALL</b>	<b>HIGH</b>	<b>3,906</b>	<b>80</b>	<b>126</b>	<b>31</b>
<i>Netherlands</i>						
<b>PA3EPN</b>	<b>40M</b>	<b>HIGH</b>	<b>1,260</b>	<b>28</b>	<b>140</b>	<b>9</b>
<b>PA0MIR</b>	<b>15M</b>	<b>LOW</b>	<b>220</b>	<b>11</b>	<b>22</b>	<b>10</b>
<b>PA0VST</b>	<b>ALL</b>	<b>LOW</b>	<b>28</b>	<b>4</b>	<b>7</b>	<b>4</b>
<i>Norway</i>						
<b>LA1VKA</b>	<b>15M</b>	<b>HIGH</b>	<b>176</b>	<b>11</b>	<b>22</b>	<b>8</b>
<b>LA6PIA</b>	<b>ALL</b>	<b>HIGH</b>	<b>144</b>	<b>13</b>	<b>18</b>	<b>8</b>
<i>Poland</i>						
<b>SP6IHE</b>	<b>ALL</b>	<b>LOW</b>	<b>2,550</b>	<b>47</b>	<b>85</b>	<b>30</b>
<b>SP6IEQ</b>	<b>ALL</b>	<b>LOW</b>	<b>774</b>	<b>30</b>	<b>43</b>	<b>18</b>
<b>SP6LUV</b>	<b>ALL</b>	<b>LOW</b>	<b>570</b>	<b>20</b>	<b>38</b>	<b>15</b>
<b>SP6DVP</b>	<b>ALL</b>	<b>HIGH</b>	<b>546</b>	<b>26</b>	<b>39</b>	<b>14</b>
<b>SP9TCC</b>	<b>ALL</b>	<b>LOW</b>	<b>480</b>	<b>23</b>	<b>32</b>	<b>15</b>
<b>SP9ADV</b>	<b>ALL</b>	<b>LOW</b>	<b>96</b>	<b>8</b>	<b>16</b>	<b>6</b>
<b>SP3DIG</b>	<b>20M</b>	<b>HIGH</b>	<b>88</b>	<b>11</b>	<b>11</b>	<b>8</b>
<b>SP4AAZ</b>	<b>20M</b>	<b>HIGH</b>	<b>10</b>	<b>5</b>	<b>5</b>	<b>2</b>
<b>SP1MVG</b>	<b>40M</b>	<b>HIGH</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>1</b>
<i>Romania</i>						
<b>YO5OEF</b>	<b>ALL</b>	<b>HIGH</b>	<b>448</b>	<b>21</b>	<b>32</b>	<b>14</b>
<b>YO3FLQ</b>	<b>20M</b>	<b>HIGH</b>	<b>32</b>	<b>8</b>	<b>8</b>	<b>4</b>
<b>YO6AJI</b>	<b>20M</b>	<b>HIGH</b>	<b>15</b>	<b>5</b>	<b>5</b>	<b>3</b>
<i>Slovakia</i>						
<b>OM4JD</b>	<b>ALL</b>	<b>HIGH</b>	<b>960</b>	<b>35</b>	<b>48</b>	<b>20</b>
<b>OM4DN</b>	<b>15M</b>	<b>LOW</b>	<b>60</b>	<b>6</b>	<b>12</b>	<b>5</b>
<b>OM7YC</b>	<b>15M</b>	<b>LOW</b>	<b>32</b>	<b>4</b>	<b>8</b>	<b>4</b>
<i>Spain</i>						
<b>EA3FHP</b>	<b>20M</b>	<b>HIGH</b>	<b>28</b>	<b>7</b>	<b>7</b>	<b>4</b>
<i>Sweden</i>						
<b>7S2E</b>	<b>ALL</b>	<b>HIGH</b>	<b>4,681</b>	<b>84</b>	<b>151</b>	<b>31</b>
<b>SM5CSS</b>	<b>ALL</b>	<b>HIGH</b>	<b>1,850</b>	<b>45</b>	<b>74</b>	<b>25</b>
<b>SM3TLG</b>	<b>15M</b>	<b>HIGH</b>	<b>280</b>	<b>14</b>	<b>28</b>	<b>10</b>
<b>SM7AIL</b>	<b>15M</b>	<b>HIGH</b>	<b>216</b>	<b>12</b>	<b>24</b>	<b>9</b>
<b>SM6FUD</b>	<b>15M</b>	<b>HIGH</b>	<b>70</b>	<b>7</b>	<b>14</b>	<b>5</b>
<i>Ukraine</i>						
<b>UR6QA</b>	<b>ALL</b>	<b>HIGH</b>	<b>10,396</b>	<b>117</b>	<b>226</b>	<b>46</b>
<b>UR3IFD</b>	<b>ALL</b>	<b>HIGH</b>	<b>7,098</b>	<b>96</b>	<b>169</b>	<b>42</b>
<b>UW5U</b>	<b>20M</b>	<b>LOW</b>	<b>72</b>	<b>12</b>	<b>12</b>	<b>6</b>
<b>UX0IB</b>	<b>15M</b>	<b>HIGH</b>	<b>64</b>	<b>8</b>	<b>16</b>	<b>4</b>
<b>UU2JA</b>	<b>15M</b>	<b>LOW</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>	
<i>Yugoslavia</i>							
<i>YU1RE</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,725</i>	<i>42</i>	<i>69</i>	<i>25</i>	
<i>YU7LS</i>	<i>15M</i>	<i>HIGH</i>	<i>280</i>	<i>14</i>	<i>28</i>	<i>10</i>	
<i>YU7KM</i>	<i>20M</i>	<i>HIGH</i>	<i>42</i>	<i>7</i>	<i>7</i>	<i>6</i>	
<b>NORTH AMERICA</b>							
<i>Canada</i>							
<i>VE7AVV</i>	<i>ALL</i>	<i>LOW</i>	<i>612</i>	<i>21</i>	<i>51</i>	<i>12</i>	
<i>VE1ZJ</i>	<i>ALL</i>	<i>HIGH</i>	<i>470</i>	<i>14</i>	<i>47</i>	<i>10</i>	
<i>VE3DZ</i>	<i>ALL</i>	<i>LOW</i>	<i>16</i>	<i>3</i>	<i>8</i>	<i>2</i>	
<i>United States</i>							
<i>K3ZO</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,346</i>	<i>76</i>	<i>162</i>	<i>33</i>	
<i>W6RLL</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,075</i>	<i>35</i>	<i>83</i>	<i>25</i>	
<i>KU1CW</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,596</i>	<i>35</i>	<i>76</i>	<i>21</i>	
<i>K4JRB</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,584</i>	<i>39</i>	<i>66</i>	<i>24</i>	
<i>NY4T</i>	<i>ALL</i>	<i>LOW</i>	<i>1,155</i>	<i>31</i>	<i>55</i>	<i>21</i>	
<i>NA2X</i>	<i>10M</i>	<i>HIGH</i>	<i>96</i>	<i>8</i>	<i>24</i>	<i>4</i>	
<i>K3TW</i>	<i>40M</i>	<i>HIGH</i>	<i>75</i>	<i>5</i>	<i>25</i>	<i>3</i>	
<i>WA5SWN</i>	<i>10M</i>	<i>HIGH</i>	<i>12</i>	<i>4</i>	<i>12</i>	<i>1</i>	
<b>SOUTH AMERICA</b>							
<i>Argentina</i>							
<i>L44DX</i>	<i>15M</i>	<i>LOW</i>	<i>320</i>	<i>16</i>	<i>32</i>	<i>10</i>	
<i>LU9JX</i>	<i>20M</i>	<i>HIGH</i>	<i>126</i>	<i>14</i>	<i>14</i>	<i>9</i>	
<i>Brazil</i>							
<i>PY2NA</i>	<i>ALL</i>	<i>LOW</i>	<i>35</i>	<i>6</i>	<i>7</i>	<i>5</i>	
<i>Multi-operator, One Transmitter</i>							
<i>VK8DA</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,215,384</i>	<i>974</i>	<i>2276</i>	<i>534</i>	
<i>VK2QF</i>	<i>ALL</i>	<i>HIGH</i>	<i>324,120</i>	<i>509</i>	<i>1095</i>	<i>296</i>	
<i>RW9C</i>	<i>ALL</i>	<i>HIGH</i>	<i>10,580</i>	<i>86</i>	<i>230</i>	<i>46</i>	
<i>RK0AXX</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,870</i>	<i>23</i>	<i>110</i>	<i>17</i>	
<i>RW2F</i>	<i>ALL</i>	<i>HIGH</i>	<i>986</i>	<i>36</i>	<i>58</i>	<i>17</i>	
<i>RZ4AYT</i>	<i>ALL</i>	<i>HIGH</i>	<i>180</i>	<i>11</i>	<i>20</i>	<i>9</i>	
<i>R1ANC</i>	<i>ALL</i>	<i>HIGH</i>	<i>160</i>	<i>16</i>	<i>20</i>	<i>8</i>	
<i>RK3RWL</i>	<i>ALL</i>	<i>HIGH</i>	<i>72</i>	<i>6</i>	<i>12</i>	<i>6</i>	
<i>UR4PWC</i>	<i>ALL</i>	<i>HIGH</i>	<i>12</i>	<i>6</i>	<i>6</i>	<i>2</i>	
<i>Multi-operator, Multi-Transmitter</i>							
<i>ZL6QH</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,510,936</i>	<i>1687</i>	<i>4092</i>	<i>858</i>	
<i>Short Wave Listeners</i>							
<i>UA0-107-181</i>	<i>ALL</i>	<i>N/a</i>		<i>5,376</i>	<i>70</i>	<i>128</i>	<i>42</i>
<i>UA3-155-75</i>	<i>ALL</i>	<i>N/a</i>		<i>938</i>	<i>16</i>	<i>67</i>	<i>14</i>
<i>JA5-3278</i>	<i>ALL</i>	<i>N/a</i>		<i>918</i>	<i>22</i>	<i>51</i>	<i>18</i>
<i>UA3-170-847</i>	<i>ALL</i>	<i>N/a</i>		<i>338</i>	<i>21</i>	<i>26</i>	<i>13</i>
<i>ONL383</i>	<i>ALL</i>	<i>N/a</i>		<i>72</i>	<i>6</i>	<i>12</i>	<i>6</i>
<i>JA2-9329</i>	<i>ALL</i>	<i>N/a</i>		<i>25</i>	<i>5</i>	<i>5</i>	<i>5</i>
<i>UU-J-1</i>	<i>ALL</i>	<i>N/a</i>		<i>8</i>	<i>3</i>	<i>4</i>	<i>2</i>
<i>Check Logs</i>							
<i>DL2SDQ</i>	<i>RN6FK</i>	<i>DL1DTC</i>	<i>SP1EOM</i>	<i>SP6CES</i>	<i>YO5CRQ</i>		

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<i>Multi-Op Station Operators</i>						
<i>UR4PWC</i>		<i>UR4PWC</i>				
<i>RK3RWL</i>		<i>RN3RC, RU3RQ</i>				
<i>RIANC</i>		<i>RW1AI, UA1PAC</i>				
<i>RZ4AYT</i>		<i>UA4AVN, RA4A-356, RA4AI</i>				
<i>RW2F</i>		<i>UA2FB, UA2FF</i>				
<i>RK0AXX</i>		<i>CONTEST TEAM SCDXC</i>				
<i>RW9C</i>		<i>RW9CF, RA9DK</i>				
<i>VK2QF</i>		<i>VK2ANZ</i>				
<i>VK8DA</i>		<i>VK8NSB, VK8AN, VK8DP, VK8KG, VK8XC, VK8HRE, VK8PT, VK8NAI, VK8PC, SWL = RON &amp; PETER</i>				
<i>ZL6QH</i>		<i>ZL2AMI, ZL2AOV, ZL1AXG, ZL2BBJ, ZL2CA, ZL2UDF, ZL2UO, ZL2DZ, ZL1AZE</i>				

<b>Europe Top 10</b>				<b>Asia Top 10</b>			
<i>ER4DX</i>	<i>ALL</i>	<i>HIGH</i>	<i>14,960</i>	<i>JH4UYB</i>	<i>ALL</i>	<i>HIGH</i>	<i>44,772</i>
<i>UR6QA</i>	<i>ALL</i>	<i>HIGH</i>	<i>10,396</i>	<i>JK1OLT</i>	<i>ALL</i>	<i>HIGH</i>	<i>34,602</i>
<i>UR3IFD</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,098</i>	<i>JA3AOP</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,420</i>
<i>RW1ZA</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,680</i>	<i>9VIUV</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,662</i>
<i>7S2E</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,681</i>	<i>JH1KLN</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,400</i>
<i>ER1QQ</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,906</i>	<i>UA0LCZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,371</i>
<i>SP6IHE</i>	<i>ALL</i>	<i>LOW</i>	<i>2,550</i>	<i>JA7ODY</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,282</i>
<i>LY1DR</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,494</i>	<i>JA1BBA</i>	<i>ALL</i>	<i>LOW</i>	<i>5,092</i>
<i>RX6LG</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,436</i>	<i>JMIXCW</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,896</i>
<i>RK3SWB</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,080</i>	<i>UN5PR</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,696</i>
<b>North America Top 10</b>				<b>South America Top 10</b>			
<i>K3ZO</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,346</i>	<i>L44DX</i>	<i>15M</i>	<i>LOW</i>	<i>320</i>
<i>W6RLL</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,075</i>	<i>LU9JX</i>	<i>20M</i>	<i>HIGH</i>	<i>126</i>
<i>KU1CW</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,596</i>	<i>PY2NA</i>	<i>ALL</i>	<i>LOW</i>	<i>35</i>
<i>K4JRB</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,584</i>	<b>Africa Top 10</b>			
<i>NY4T</i>	<i>ALL</i>	<i>LOW</i>	<i>1,155</i>	<i>No Entrants</i>			
<i>VE7AVV</i>	<i>ALL</i>	<i>LOW</i>	<i>612</i>				
<i>VE1ZJ</i>	<i>ALL</i>	<i>HIGH</i>	<i>470</i>				
<i>NA2X</i>	<i>10M</i>	<i>HIGH</i>	<i>96</i>				
<i>K3TW</i>	<i>40M</i>	<i>HIGH</i>	<i>75</i>				
<i>VE3DZ</i>	<i>ALL</i>	<i>LOW</i>	<i>16</i>				
<b>Oceania Top 10</b>				<b>Non-Oceania Top 10</b>			
<i>VK4EMM</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,813,776</i>	<i>JH4UYB</i>	<i>ALL</i>	<i>HIGH</i>	<i>44,772</i>
<i>VK5GN</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,551,020</i>	<i>JK1OLT</i>	<i>ALL</i>	<i>HIGH</i>	<i>34,602</i>
<i>4W6MM</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,407,860</i>	<i>ER4DX</i>	<i>ALL</i>	<i>HIGH</i>	<i>14,960</i>
<i>ZL1TM</i>	<i>ALL</i>	<i>LOW</i>	<i>1,233,674</i>	<i>JA3AOP</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,420</i>
<i>VK2FHN</i>	<i>ALL</i>	<i>HIGH</i>	<i>985,566</i>	<i>UR6QA</i>	<i>ALL</i>	<i>HIGH</i>	<i>10,396</i>
<i>VK2CZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>711,018</i>	<i>UR3IFD</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,098</i>
<i>VK4UC</i>	<i>ALL</i>	<i>HIGH</i>	<i>471,472</i>	<i>RW1ZA</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,680</i>
<i>VK4DX</i>	<i>ALL</i>	<i>LOW</i>	<i>419,482</i>	<i>9VIUV</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,662</i>
<i>VK8DK</i>	<i>15M</i>	<i>LOW</i>	<i>393,790</i>	<i>JH1KLN</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,400</i>
<i>ZL1ALZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>351,880</i>	<i>UA0LCZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,371</i>

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
<b>CW RESULTS</b>						
<i>Single Operator</i>						
<b>OCEANIA</b>						
<i>Australia</i>						
<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>
VK4EMM	<i>ALL</i>	<i>HIGH</i>	4,205,320	1740	4571	920
VK2AYD	<i>ALL</i>	<i>LOW</i>	2,168,947	1228	2959	733
VK4DX	<i>ALL</i>	<i>LOW</i>	1,469,320	1197	2180	674
VK5GN	<i>ALL</i>	<i>HIGH</i>	1,250,044	839	2372	527
VK4UC	<i>ALL</i>	<i>LOW</i>	416,480	432	1370	304
VK4TT	<i>10M</i>	<i>LOW</i>	413,991	513	1539	269
VK2QF	<i>ALL</i>	<i>HIGH</i>	352,625	494	1085	325
VK2KM	<i>15M</i>	<i>HIGH</i>	331,676	566	1132	293
VK2APK	<i>20M</i>	<i>HIGH</i>	273,504	777	777	352
VK8AV	<i>ALL</i>	<i>LOW</i>	264,702	436	843	314
VK3JS	<i>ALL</i>	<i>QRP</i>	171,550	237	1175	146
VK4XY	<i>ALL</i>	<i>LOW</i>	159,222	291	714	223
VK2PS	<i>ALL</i>	<i>HIGH</i>	79,304	236	431	184
VK3TZ	<i>80M</i>	<i>HIGH</i>	10,800	36	360	30
<i>East Malaysia</i>						
9M6A	<i>ALL</i>	<i>HIGH</i>	99,414	240	526	189
<i>East Timor</i>						
4W6MM	<i>ALL</i>	<i>HIGH</i>	147,852	310	666	222
<i>Fiji</i>						
3D2/W7DRA	<i>ALL</i>	<i>LOW</i>	582,015	532	1687	345
<i>Hawaii</i>						
KH6ND	<i>ALL</i>	<i>HIGH</i>	4,449,375	1735	5085	875
<i>Indonesia</i>						
YB0ECT	<i>ALL</i>	<i>LOW</i>	379,008	652	1008	376
YD2DQV	<i>15M</i>	<i>LOW</i>	15,708	102	204	77
<i>New Zealand</i>						
ZL1GO	<i>ALL</i>	<i>HIGH</i>	2,431,968	1340	3234	752
ZL2BR	<i>ALL</i>	<i>LOW</i>	2,127,066	1212	2942	723
ZL2AZ	<i>ALL</i>	<i>HIGH</i>	1,134,980	743	2345	484
ZL2CD	<i>ALL</i>	<i>HIGH</i>	617,391	553	1629	379
ZL1AIH	<i>ALL</i>	<i>HIGH</i>	513,279	567	1599	321
ZL2AGY	<i>ALL</i>	<i>HIGH</i>	324,352	375	1267	256
ZL2LF	<i>ALL</i>	<i>HIGH</i>	145,754	256	718	203
ZL3GA	<i>ALL</i>	<i>LOW</i>	9,614	69	209	46
ZL1ALZ	<i>ALL</i>	<i>LOW</i>	4,900	61	98	50
ZL3CED	<i>ALL</i>	<i>HIGH</i>	3,404	45	92	37
ZL/G4EDG	<i>20M</i>	<i>LOW</i>	1,320	40	40	33
<i>Philippines</i>						
DU3NXE	<i>ALL</i>	<i>HIGH</i>	221,147	423	787	281
<b>ASIA</b>						

<b>Call</b>	<b>Band</b>	<b>Power</b>	<b>Score</b>	<b>QSOs</b>	<b>Points</b>	<b>Mults</b>
<i>Asiatic Russia</i>						
UA0LCZ	ALL	HIGH	11,220	78	220	51
RA9MA	ALL	HIGH	6,794	67	158	43
UA9JKA	ALL	HIGH	5,080	59	127	40
UA0SAD	ALL	LOW	4,000	47	125	32
UA0ANW	ALL	LOW	1,102	23	58	19
RA0AY	ALL	HIGH	1,026	23	54	19
RA0CL	ALL	HIGH	540	15	36	15
RW0LIA	15M	LOW	456	19	38	12
UA9XF	ALL	LOW	170	11	17	10
UA9FGJ	20M	LOW	42	7	7	6
UA0SBQ	ALL	HIGH	12	2	6	2
RA9ST	20M	HIGH	9	3	3	3
UA9QFF	15M	LOW	2	1	2	1
RW9QA	15M	LOW	2	1	2	1
<i>India</i>						
VU2UR	ALL	LOW	1,794	34	69	26
<i>Japan</i>						
JJ3BFC	ALL	HIGH	7,098	62	169	42
JA7ARW	ALL	LOW	2,106	39	81	26
JA3YPL	ALL	LOW	1,976	35	76	26
JA4AQR	ALL	HIGH	1,968	37	82	24
JE1REU	ALL	LOW	1,869	30	89	21
JA1PS	10M	HIGH	1,824	32	96	19
JA1HFY	ALL	HIGH	1,575	28	63	25
JR1NKN	ALL	QRP	850	21	50	17
7J1ABD	ALL	HIGH	816	19	48	17
JA3HBF	40M	LOW	770	14	70	11
JA1BBA	15M	LOW	750	25	50	15
JE2SOY	10M	LOW	663	17	51	13
JA4ETH	10M	LOW	480	16	48	10
JA2KCY	ALL	LOW	374	15	34	11
JH5OXF	ALL	LOW	360	14	30	12
7K2PBB	10M	HIGH	297	11	33	9
JA4CES	10M	HIGH	264	11	33	8
JA1AAT	10M	HIGH	264	11	33	8
JG3NKP/1	10M	HIGH	252	12	36	7
JJ2KVV	ALL	HIGH	216	9	24	9
JR2TRC	10M	HIGH	180	10	30	6
JA7DOT	20M	HIGH	168	14	14	12
JF7GDF	15M	HIGH	126	9	18	7
JO7BBS	10M	HIGH	84	7	21	4
JH2OMM	20M	HIGH	72	9	9	8
JE1KDM	40M	HIGH	60	4	20	3
JH1NXU	ALL	HIGH	52	5	13	4
JN7OJA	10M	HIGH	45	5	15	3
JQ1AHZ/2	15M	HIGH	32	4	8	4

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>	
JO1WIZ	15M	HIGH		32	4	8	4
JK1LUY	20M	HIGH		20	5	5	4
JH7IMX	20M	LOW		9	3	3	3
JH9WHX	40M	HIGH		5	1	5	1
<i>Kazakhstan</i>							
UN5J	ALL	HIGH		3,432	48	104	33
UN6P	ALL	HIGH		2,184	31	84	26
UN9LN	ALL	HIGH		217	7	31	7
UN7EX	ALL	HIGH		112	10	14	8
<i>Kyrgyzstan</i>							
EX2X	15M	HIGH		280	14	28	10
EX2A	ALL	HIGH		32	4	8	4
<i>South Korea</i>							
HL5UOG	ALL	HIGH		6,280	61	157	40
<b>EUROPE</b>							
<i>Austria</i>							
OE3ZK	ALL	HIGH		1,932	43	69	28
<i>Belarus</i>							
EW6MM	ALL	HIGH		1,944	34	72	27
EW6AF	ALL	HIGH		1,232	25	56	22
EW2AA	ALL	HIGH		270	13	27	10
EU1MM	15M	LOW		154	11	22	7
<i>Belgium</i>							
ON4XG	ALL	HIGH		1,140	32	57	20
<i>Bosnia-Herzegovina</i>							
T95A	15M	LOW		60	6	12	5
<i>Bulgaria</i>							
LZ1LZ	ALL	HIGH		1,725	47	69	25
LZ1XL	10M	HIGH		408	17	51	8
LZ2L	15M	HIGH		180	10	20	9
LZ4UU	20M	HIGH		150	15	15	10
LZ1IA	20M	HIGH		135	15	15	9
LZ3DP	10M	HIGH		126	7	21	6
LZ2UZ	ALL	LOW		48	8	8	6
<i>Croatia</i>							
9A9AU	ALL	HIGH		104	11	13	8
<i>Czech Republic</i>							
OK2EQ	ALL	HIGH		1,968	34	82	24
OK1OX	ALL	HIGH		1,782	34	66	27
OK2BCJ	ALL	HIGH		1,495	36	65	23
OK1DVK	ALL	HIGH		1,100	31	50	22
OK2BVG	40M	HIGH		390	13	65	6
OK1AOU	ALL	HIGH		300	13	25	12
OK2BNC	ALL	HIGH		216	15	24	9
OK1ANN	15M	HIGH		98	7	14	7
OK1DSU	ALL	HIGH		36	5	12	3
<i>Denmark</i>							



<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>	
OZ5DX	<i>ALL</i>	<i>HIGH</i>		<b>5,250</b>	<b>65</b>	<b>150</b>	<b>35</b>
OZ7BQ	<i>ALL</i>	<i>HIGH</i>		<b>920</b>	<b>24</b>	<b>46</b>	<b>20</b>
<i>England</i>							
G3GLL	<i>ALL</i>	<i>HIGH</i>		<b>2,688</b>	<b>47</b>	<b>96</b>	<b>28</b>
G3UFY	<i>ALL</i>	<i>HIGH</i>		<b>1,875</b>	<b>37</b>	<b>75</b>	<b>25</b>
G5MY	<i>ALL</i>	<i>HIGH</i>		<b>180</b>	<b>11</b>	<b>20</b>	<b>9</b>
G3JKY	<i>ALL</i>	<i>HIGH</i>		<b>91</b>	<b>9</b>	<b>13</b>	<b>7</b>
<i>Estonia</i>							
ES2JL	<i>20M</i>	<i>HIGH</i>		<b>126</b>	<b>14</b>	<b>14</b>	<b>9</b>
<i>European Russia</i>							
RN6BN	<i>ALL</i>	<i>HIGH</i>		<b>6,437</b>	<b>67</b>	<b>157</b>	<b>41</b>
RA6LW	<i>ALL</i>	<i>LOW</i>		<b>2,880</b>	<b>48</b>	<b>90</b>	<b>32</b>
RN1AO	<i>ALL</i>	<i>HIGH</i>		<b>1,890</b>	<b>36</b>	<b>70</b>	<b>27</b>
RA4HW	<i>ALL</i>	<i>LOW</i>		<b>629</b>	<b>22</b>	<b>37</b>	<b>17</b>
UA3DEE	<i>15M</i>	<i>HIGH</i>		<b>432</b>	<b>18</b>	<b>36</b>	<b>12</b>
UA6ADC	<i>10M</i>	<i>LOW</i>		<b>420</b>	<b>14</b>	<b>42</b>	<b>10</b>
UA6HON	<i>ALL</i>	<i>LOW</i>		<b>312</b>	<b>18</b>	<b>26</b>	<b>12</b>
RZ4AG	<i>ALL</i>	<i>LOW</i>		<b>299</b>	<b>15</b>	<b>23</b>	<b>13</b>
RX3DTN	<i>ALL</i>	<i>HIGH</i>		<b>297</b>	<b>11</b>	<b>27</b>	<b>11</b>
UA4QK	<i>ALL</i>	<i>HIGH</i>		<b>204</b>	<b>12</b>	<b>17</b>	<b>12</b>
RA3WDK	<i>40M</i>	<i>LOW</i>		<b>150</b>	<b>6</b>	<b>30</b>	<b>5</b>
UA3AVR	<i>15M</i>	<i>HIGH</i>		<b>140</b>	<b>10</b>	<b>20</b>	<b>7</b>
RA4AI	<i>ALL</i>	<i>LOW</i>		<b>12</b>	<b>3</b>	<b>4</b>	<b>3</b>
RV3DAK	<i>20M</i>	<i>LOW</i>		<b>9</b>	<b>3</b>	<b>3</b>	<b>3</b>
RW3VZ	<i>20M</i>	<i>HIGH</i>		<b>9</b>	<b>3</b>	<b>3</b>	<b>3</b>
RZ4AA	<i>ALL</i>	<i>HIGH</i>		<b>6</b>	<b>2</b>	<b>3</b>	<b>2</b>
UA3RF	<i>40M</i>	<i>HIGH</i>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<i>Fed. Rep. of Germany</i>							
DL6KVA	<i>ALL</i>	<i>HIGH</i>		<b>2,573</b>	<b>38</b>	<b>83</b>	<b>31</b>
DK3KD	<i>ALL</i>	<i>HIGH</i>		<b>1,958</b>	<b>34</b>	<b>89</b>	<b>22</b>
<b>DL8QS</b>	<i>ALL</i>	<i>HIGH</i>		<b>1,869</b>	<b>36</b>	<b>89</b>	<b>21</b>
DK3GI	<i>ALL</i>	<i>LOW</i>		<b>1,725</b>	<b>31</b>	<b>75</b>	<b>23</b>
DL6YK	<i>ALL</i>	<i>HIGH</i>		<b>1,672</b>	<b>37</b>	<b>76</b>	<b>22</b>
DL2TG	<i>ALL</i>	<i>HIGH</i>		<b>1,140</b>	<b>25</b>	<b>57</b>	<b>20</b>
DL7AXM	<i>ALL</i>	<i>HIGH</i>		<b>780</b>	<b>24</b>	<b>39</b>	<b>20</b>
DJ5GG	<i>15M</i>	<i>LOW</i>		<b>494</b>	<b>19</b>	<b>38</b>	<b>13</b>
DL3NSM	<i>20M</i>	<i>HIGH</i>		<b>338</b>	<b>26</b>	<b>26</b>	<b>13</b>
DL3ZAI	<i>ALL</i>	<i>HIGH</i>		<b>198</b>	<b>12</b>	<b>18</b>	<b>11</b>
DL1DQY	<i>20M</i>	<i>HIGH</i>		<b>130</b>	<b>13</b>	<b>13</b>	<b>10</b>
DL8UAT	<i>20M</i>	<i>LOW</i>		<b>56</b>	<b>8</b>	<b>8</b>	<b>7</b>
DK3RA	<i>40M</i>	<i>LOW</i>		<b>45</b>	<b>3</b>	<b>15</b>	<b>3</b>
<i>Finland</i>							
OH1BOI	<i>ALL</i>	<i>HIGH</i>		<b>128</b>	<b>9</b>	<b>16</b>	<b>8</b>
OH2HMB	<i>ALL</i>	<i>LOW</i>		<b>60</b>	<b>6</b>	<b>10</b>	<b>6</b>
<i>France</i>							
F6IRF	<i>ALL</i>	<i>LOW</i>		<b>2,025</b>	<b>40</b>	<b>75</b>	<b>27</b>
<i>Hungary</i>							

<b>Call</b>	<i>Band</i>	<i>Power</i>	<i>Score</i>	<i>QSOs</i>	<i>Points</i>	<i>Mults</i>	
<i>HA8VK</i>	<i>ALL</i>	<i>HIGH</i>		<b>6,825</b>	<b>66</b>	<b>175</b>	<b>39</b>
<i>HG8W</i>	<i>ALL</i>	<i>HIGH</i>		<b>378</b>	<b>17</b>	<b>27</b>	<b>14</b>
<i>Kaliningradsk</i>							
<i>UA2CZ</i>	<i>ALL</i>	<i>HIGH</i>		<b>190</b>	<b>11</b>	<b>19</b>	<b>10</b>
<i>Latvia</i>							
<i>YL2LY</i>	<i>ALL</i>	<i>HIGH</i>		<b>5,846</b>	<b>63</b>	<b>158</b>	<b>37</b>
<i>Lithuania</i>							
<i>LY1DR</i>	<i>ALL</i>	<i>HIGH</i>		<b>4,320</b>	<b>55</b>	<b>120</b>	<b>36</b>
<i>LY2OX</i>	<i>ALL</i>	<i>HIGH</i>		<b>1,344</b>	<b>30</b>	<b>64</b>	<b>21</b>
<i>LY2BNL</i>	<i>20M</i>	<i>LOW</i>		<b>25</b>	<b>5</b>	<b>5</b>	<b>5</b>
<i>Netherlands</i>							
<i>PA0MIR</i>	<i>ALL</i>	<i>LOW</i>		<b>680</b>	<b>26</b>	<b>40</b>	<b>17</b>
<i>PA3BFH</i>	<i>ALL</i>	<i>LOW</i>		<b>629</b>	<b>24</b>	<b>37</b>	<b>17</b>
<i>PA3FDO</i>	<i>ALL</i>	<i>HIGH</i>		<b>88</b>	<b>6</b>	<b>22</b>	<b>4</b>
<i>Northern Ireland</i>							
<i>GI4KSH</i>	<i>ALL</i>	<i>HIGH</i>		<b>28</b>	<b>4</b>	<b>7</b>	<b>4</b>

<i>Poland</i>							
SP5ATO	ALL	LOW	2,880	49	96	30	
SP6BAA	ALL	HIGH	1,134	25	54	21	
SP5GH	ALL	HIGH	1,026	25	54	19	
SP6IHE	ALL	LOW	527	18	31	17	
SP7BCA	ALL	HIGH	495	21	33	15	
SP9QJ	ALL	HIGH	406	19	29	14	
SP5CJQ	20M	HIGH	345	23	23	15	
SP9BRP	ALL	HIGH	312	14	26	12	
SP8BAB	20M	LOW	253	23	23	11	
SQ4NR	ALL	LOW	144	8	18	8	
SQ9FMU	15M	LOW	128	8	16	8	
SP4AVG	15M	HIGH	84	7	14	6	
SP3AOT	20M	HIGH	80	10	10	8	
SP3BGD	20M	LOW	70	10	10	7	
SP9EMI	ALL	LOW	24	3	8	3	
SP5AKG	15M	HIGH	18	3	6	3	
SP4AAZ	20M	HIGH	1	1	1	1	
SP9ADV	20M	LOW	1	1	1	1	
<i>Romania</i>							
YO6BHN	ALL	LOW	2,132	36	82	26	
YO8WW	ALL	HIGH	54	8	9	6	
YO8BGD	40M	HIGH	20	2	10	2	
YO2BEH	15M	HIGH	18	3	6	3	
<i>Slovakia</i>							
OM0WR	ALL	HIGH	4,725	46	135	35	
OM8ON	ALL	LOW	2,158	33	83	26	
OM4JD	ALL	HIGH	2,050	42	82	25	
OM4DN	ALL	LOW	1,232	28	56	22	
OM7RC	ALL	LOW	663	22	39	17	
OM7YC	15M	LOW	280	14	28	10	
OM7PY	20M	QRP	36	6	6	6	
OM7AT	20M	HIGH	25	5	5	5	
<i>Slovenia</i>							
S53AU	ALL	LOW	462	21	33	14	
S59ZZ	15M	HIGH	98	7	14	7	
S58MU	20M	HIGH	63	9	9	7	
<i>Spain</i>							
EA7GSU	15M	HIGH	330	15	30	11	
EA2AHZ	ALL	HIGH	286	14	22	13	
EA7CA	20M	LOW	4	2	2	2	
<i>Sweden</i>							
7S2E	ALL	HIGH	4,032	45	126	32	
SM6CRM	ALL	HIGH	1,323	32	63	21	
8S0W	ALL	HIGH	765	21	45	17	
SM3TLG	15M	HIGH	240	15	30	8	
SK0TM	ALL	HIGH	160	10	20	8	

	SM0KV	15M	HIGH	50	5	10	5
	SM5CSS	15M	LOW	2	1	2	1
<i>Switzerland</i>							
	HB9IK	ALL	HIGH	2,160	39	80	27
	HB9CZF	ALL	HIGH	900	28	50	18
<i>Ukraine</i>							
	UT7QF	ALL	HIGH	15,872	105	256	62
	UR3IFD	ALL	LOW	4,588	58	124	37
	UR8LA	ALL	HIGH	3,672	48	108	34
	UT2UB	ALL	HIGH	2,820	40	94	30
	UW5U	ALL	LOW	2,635	43	85	31
	UU5JIB	ALL	HIGH	1,392	32	58	24
	US9QA	ALL	HIGH	1,260	33	63	20
	UY0ZG	ALL	HIGH	1,045	26	55	19
	UX1IL	ALL	LOW	520	14	40	13
	UT5UIA	ALL	HIGH	344	11	43	8
	UX0IB	15M	HIGH	198	11	22	9
	US3QW	15M	LOW	50	5	10	5
	UU2JA	20M	HIGH	48	8	8	6
<i>Yugoslavia</i>							
	YU7LS	15M	HIGH	456	19	38	12
	4N1JA	ALL	LOW	336	17	28	12
	YU7KM	20M	HIGH	220	20	20	11
	YT1VM	15M	HIGH	198	11	22	9
	YU1RE	40M	HIGH	140	7	35	4
<b>NORTH AMERICA</b>							
<i>Canada</i>							
	VE3DZ	ALL	LOW	9,024	73	192	47
	VE1ZJ	ALL	HIGH	7,942	57	209	38
	VE4IM	ALL	HIGH	6,734	57	182	37
	VE7ASK	ALL	LOW	3,475	37	139	25
	VA3IX	ALL	HIGH	196	8	28	7
<i>United States</i>							
	N6RO	ALL	HIGH	32,472	133	451	72
	KU1CW	ALL	HIGH	12,740	91	245	52
	K3ZO	ALL	HIGH	12,005	88	245	49
	W6RLL	ALL	HIGH	5,530	53	158	35
	N6ZZ	ALL	HIGH	4,726	54	139	34
	K3NK	ALL	LOW	4,046	57	119	34
	W3BP	ALL	HIGH	3,266	38	142	23
	W2OO	ALL	HIGH	2,825	37	113	25
	N4PSE	ALL	LOW	1,050	26	70	15
	K9ALP	15M	HIGH	432	18	36	12
	W1END	10M	LOW	273	13	39	7
	KC8LTL	10M	QRP	264	11	33	8
	K0UK	ALL	LOW	230	10	23	10
	W3CP	15M	HIGH	224	14	28	8
	K0COP/4	ALL	HIGH	207	11	23	9

	K3TW	40M	HIGH	200	8	40	5
	W7KPL	20M	HIGH	20	5	5	4
	W1HDO	20M	HIGH	1	1	1	1
<b>SOUTH AMERICA</b>							
<i>Argentina</i>							
	LU1EWL	ALL	HIGH	3,159	51	117	27
<i>Brazil</i>							
	PY2NA	ALL	LOW	40	5	8	5
	PY7OJ	15M	LOW	24	4	8	3
	PY4FQ	ALL	LOW	20	4	5	4
<i>Multi-operator, One Transmitter</i>							
	UT7L	ALL	HIGH	3,638	49	107	34
	OM3KZA	ALL	HIGH	2,378	43	82	29
	RW9C	ALL	HIGH	1,155	28	55	21
	HA1CW	ALL	HIGH	680	24	40	17
	RK3RWL	ALL	HIGH	98	7	14	7
	SP9KRT	ALL	LOW	5	1	5	1
<i>Multi-Operator, Multi-Transmitter</i>							
	ZL6QH	ALL	HIGH	7,106,666	2315	6223	1142
	R1ANC	ALL	LOW	1,472	29	64	23
<i>Shortwave Listener</i>							
	UA0-107-181	ALL	N/a	9,840	79	205	48
	YZ1KVA-SWL	ALL	N/a	1,197	31	57	21
	UA3-155-28	ALL	N/a	738	26	41	18
	UA1-173-1	ALL	N/a	624	24	39	16
	UA3-155-75	ALL	N/a	528	19	33	16
	JA5-3278	ALL	N/a	481	14	137	13
	UA3-170-847	ALL	N/a	160	11	16	10
	OK2-9329	ALL	N/a	77	8	11	7
<i>Check Logs</i>							
<b>DF3OL</b>	<b>DF6LQ</b>	<b>DL1DTC</b>	<b>DL2HWI</b>	<b>DL2SDQ</b>	<b>DL7VMM</b>	<b>K9GY</b>	<b>LA1YE</b>
<b>OH7NRW</b>	<b>OK1DEC</b>	<b>PA0TON</b>	<b>PA5TT</b>	<b>PY7GK</b>	<b>RA9AC</b>	<b>SP2AVE</b>	<b>SP9SOU</b>
<b>UA4NF</b>	<b>ZL2ALJ</b>						
<i>Multi-Op Station Operators</i>							
<b>UT7L</b>	<b>UR4LTX, UX0LL</b>						
<b>OM3KZA</b>	<b>OM3CUG, OM3TYC, OM3TPN, OM6FM</b>						
<b>RW9C</b>	<b>RW9CF, RA9DK</b>						
<b>HA1CW</b>	<b>HA1CW, HG5OYL</b>						
<b>RK3RWL</b>	<b>RN3RC, RU3RQ</b>						
<b>SP9KRT</b>	<b>SP9ADU, SP9-1753</b>						
<b>ZL6QH</b>	<b>ZL2BSJ, ZL2III(DK1II), ZL1BYZ, ZL1AZE</b>						
<b>R1ANC</b>	<b>RW1AI, UAIPAC</b>						

<b>Europe Top 10</b>				<b>Asia Top 10</b>			
<i>UT7QF</i>	<i>ALL</i>	<i>HIGH</i>	<i>15,872</i>	<i>UA0LCZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>11,220</i>
<i>HA8VK</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,825</i>	<i>J13BFC</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,098</i>
<i>RN6BN</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,437</i>	<i>RA9MA</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,794</i>
<i>YL2LY</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,846</i>	<i>HL5UOG</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,280</i>
<i>OZ5DX</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,250</i>	<i>UA9JKA</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,080</i>
<i>OM0WR</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,725</i>	<i>UA0SAD</i>	<i>ALL</i>	<i>LOW</i>	<i>4,000</i>
<i>UR31FD</i>	<i>ALL</i>	<i>LOW</i>	<i>4,588</i>	<i>UN5J</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,432</i>
<i>LY1DR</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,320</i>	<i>UN6P</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,184</i>
<i>7S2E</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,032</i>	<i>JA7ARW</i>	<i>ALL</i>	<i>LOW</i>	<i>2,106</i>
<i>UR8LA</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,672</i>	<i>JA3YPL</i>	<i>ALL</i>	<i>LOW</i>	<i>1,976</i>
<b>North America Top 10</b>				<b>South America Top 10</b>			
<i>N6RO</i>	<i>ALL</i>	<i>HIGH</i>	<i>32,472</i>	<i>LU1EWL</i>	<i>ALL</i>	<i>HIGH</i>	<i>3,159</i>
<i>KU1CW</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,740</i>	<i>PY2NA</i>	<i>ALL</i>	<i>LOW</i>	<i>40</i>
<i>K3ZO</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,005</i>	<i>PY7OJ</i>	<i>15M</i>	<i>LOW</i>	<i>24</i>
<i>VE3DZ</i>	<i>ALL</i>	<i>LOW</i>	<i>9,024</i>	<i>PY4FQ</i>	<i>ALL</i>	<i>LOW</i>	<i>20</i>
<i>VE1ZJ</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,942</i>	<b>Africa Top 10</b>			
<i>VE4IM</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,734</i>	<i>No Entrants</i>			
<i>W6RLL</i>	<i>ALL</i>	<i>HIGH</i>	<i>5,530</i>				
<i>N6ZZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,726</i>				
<i>K3NK</i>	<i>ALL</i>	<i>LOW</i>	<i>4,046</i>				
<i>VE7ASK</i>	<i>ALL</i>	<i>LOW</i>	<i>3,475</i>				
<b>Oceania Top 10</b>				<b>Non-Oceania Top 10</b>			
<i>KH6ND</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,449,375</i>	<i>N6RO</i>	<i>ALL</i>	<i>HIGH</i>	<i>32,472</i>
<i>VK4EMM</i>	<i>ALL</i>	<i>HIGH</i>	<i>4,205,320</i>	<i>UT7QF</i>	<i>ALL</i>	<i>HIGH</i>	<i>15,872</i>
<i>ZL1GO</i>	<i>ALL</i>	<i>HIGH</i>	<i>2,431,968</i>	<i>KU1CW</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,740</i>
<i>VK2AYD</i>	<i>ALL</i>	<i>LOW</i>	<i>2,168,947</i>	<i>K3ZO</i>	<i>ALL</i>	<i>HIGH</i>	<i>12,005</i>
<i>ZL2BR</i>	<i>ALL</i>	<i>LOW</i>	<i>2,127,066</i>	<i>UA0LCZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>11,220</i>
<i>VK4DX</i>	<i>ALL</i>	<i>LOW</i>	<i>1,469,320</i>	<i>VE3DZ</i>	<i>ALL</i>	<i>LOW</i>	<i>9,024</i>
<i>VK5GN</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,250,044</i>	<i>VE1ZJ</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,942</i>
<i>ZL2AZ</i>	<i>ALL</i>	<i>HIGH</i>	<i>1,134,980</i>	<i>J13BFC</i>	<i>ALL</i>	<i>HIGH</i>	<i>7,098</i>
<i>ZL2CD</i>	<i>ALL</i>	<i>HIGH</i>	<i>617,391</i>	<i>HA8VK</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,825</i>
<i>3D2/W7DRA</i>	<i>ALL</i>	<i>LOW</i>	<i>582,015</i>	<i>RA9MA</i>	<i>ALL</i>	<i>HIGH</i>	<i>6,794</i>

## **Sangster Shield Results 2003**

Logs were received from 23 operators, which represents over 75% of the 30 stations that were active. Although some stations were present for a very short period many were in branches that were all adequately covered by other callsigns.

The minimum activity rule 13 was applied in respect of four branches for which only one or 2 contacts were recorded during the entire contest & for which no logs have been received. I have deleted only the multipliers and not the contacts on his occasion. I would like to make it clear that this rule was not intended to discourage any operator from participating for short periods, it was just to ensure fairness in my scoring method. Although the rule states that contacts will also be deleted I believe this is harsh when there is no sign of arranged contacts or favouritism.

This action has affected the order of place winners and leaves all of the front running contestants with 17 branches.

Congratulations to Paul ZL1PC in winning the Sangster Shield - ZL1PCs 3rd win from 1999.

Jack ZL1AJ 2nd & Ron ZL1TW 3rd were both close with DX points swinging it in Jack's favour. Both are first time placegetters - congratulations.

David ZL1DMA has taken the Transistor Trophy after a couple of years without entrants. Well done David - the only downside is that you cannot defend your title next year!

The Arthur Stevens South Island Trophy passes to Roger ZL2RX branch 26 Nelson - Great score too.

Whangarei Branch 28 takes the Branch award for their top 3 logs out of a total of 6 received. - Well done. No other branch qualified with 3 logs this year, although 3 stations were worked at branch 29.

The 18 qualifying active Branches were - 3,10,12,13,17,20,26,28,29,40,42,45,47,50,65,71,78,86.

There were more VKs about this year and it is pleasing to see the DX contacts spread over many entries.

I did not get on myself this year but the task of checking logs is a pleasure for this contest where all entrants play fair & even mark & deduct duplicate and uncertain contacts from their results.

**Comments received were:** -

- The ZL3s & 4s must be taking power savings to extreme.
- Where was Jumbo ZL1HV?
- ZL1 reported good conditions except Sunday's last period "sky" was changeable.  
ZL2 reported noise build up each night.
- A bit tuff missing the Blues rugby game!
- Peter ZL2AZ favours a single night format.

**Search for the Sangster & Transistor Trophy-** Once again I am repeating the Contest team's request for the whereabouts of the Sangster Shield and the Transistor Trophy? I have received only one communication about this from John ZL2ADN but no leads as to location.

Glenn ZL2KZ

**No Station Name 0-5w 6w+ DX Brs Pwr Total Br Equipment**  
**Sangster Shield - Open Section**



1	ZL1PC	Paul Slako	223	3	3	17	5w	19516	28	Icom IC701, full wave loop
2	ZL1AJ	Jack Culloty	205	1	3	17	5w	17952	40	K'wood TS870, 1/2w dip, P&T key
3	ZL1TW	Ron Willcocks	210	4	0	17	5w	17918	28	Elecraft K2, 1/2w dipole
4	ZL1PZ	Ian Sexton	207	2	1	17	5w	17799	10	7C5 valve from TS830, Zepp
5	ZL1DD	Barry Kirkwood	205	3	1	17	5w	17646	86	Yaesu FT1000D TX, 18m high dip
6	ZL1ALZ	John Balsillie	206	3	0	17	5w	17561	65	Kenwood TS120v, dipole
7	ZL2AZ	Peter Lake	199	2	1	17	5w	17119	42	Yaesu FT817, o/w fed 1/2w Inv V

**8**

**ZL1AIH**

**Ken McCormack 191**

**1 0 17**

**5w 1625271**

**Elecraft K2,**

**delta + top-load vert.**

9	ZL1BGS	Terry East	179	2	1	17	5w	15419	17	Kenwood TS120V, 80m dipole
11	ZL1WI	Roy Milam	171	1	0	17	5w	14552	3	H brew solid state Xcvr, ½ w dip
12	ZL1ANM	Neil Barnett	167	2	0	17	5w	14229	29	FT-897, Atari terminal, 40'end fed
13	ZL2BIF	Sidney McKain	165	0	1	16	2w	13360	47	Ten Tec Argonaut 509, long wire
14	ZL1ANY	Stephen Pearce	147	0	3	17	4w	13005	28	Elecraft K2, multiband dipole
15	ZL1BAV	Charley Vial	149	1	1	17	4w	12852	29	Heathkit HW9, 80m dipole
16	ZL2AVL	Bill Luscombe	156	1	0	16	5w	12496	45	K'wood TS120V, Ext Doub Zepp
17	ZL2AOH	Ralph Sutton	118	3	0	17	5w	10081	50	Kenwood TS120V, Dipole
18	ZL1UD	Tony Case	70	0	0	11	5w	3850	12	Yaesu FT757GX, 80/40 Dipole
19	ZL1VJ	B Somerville-Ryan	60	0	0	10	5w	3000	28	Yaesu FTG757GXII, 1/2w multiband

**Arthur Stevens South Island Trophy**

10	*ZL2RX	Roger Wincer	175	3	1	17	5w	15096	26	Yaesu FT101, inv L up 7m, bug key
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**Transistor Trophy - Licensed less than 1 year**

ZL1DMA	D McCluggage	45	0	0	13	5w	2925	28	Elecraft K1, Dipole
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**Check Logs**

ZL1BHQ	John Powell	Check Log -thanks	4w	29	TS-440AT, invV 50ft up
ZL1DAC	C.M.G. Moates	Check Log -thanks	10w	28	TS50, Gap Voyager vertical
ZL1WW	Tom Spackman	Check Log -thanks	2w	12	

\* Arthur Stevens winner is also a valid entrant to the open section