Results of the 1999 CQ WW DX SSB Contest

BY BOB COX,* K3EST

ith solar conditions at a peak, contesters young and not so young from all over the world turned on their rigs. What did they find? *Ultima Thule*. Those words are the best way of describing the 1999 WW DX SSB Contest. Conditions were something beyond expectations. In 1998 the main band was 15 meters; in 1999 it was all the bands. If you listened on 10 meters, you found the band wall to wall with contesters from below 28.3 to above 29.2 MHz. It was a full megahertz of guys and gals having the time of their lives. With the solar flux hovering between 169 and 180, records fell across the board.

After months of planning, building, and practicing, thousands of contesters took full advantage of the smiling ionosphere. The number of logs received was 4025, the highest total for any CQ WW Contest in history. It was an increase of 500 logs over the prior year's recordbreaking total. Reported here are the final results of the world's largest radio event. Read on to see how you and your friends ended up. Everyone who operated the CQ WW last year was a winner.

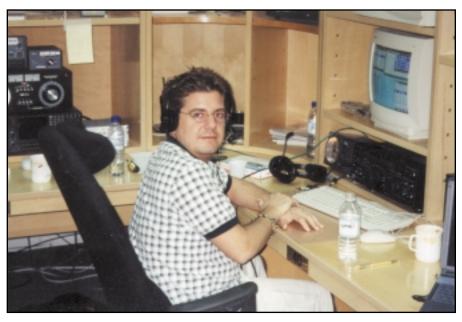
High Power

I suppose you could say, "Wow!" That, however, would be an understatement. What Jeff, N5TJ, accomplished at EA8BH was contesting history. He broke the most coveted record in contesting by almost 10 million points. He is the first to make over 10K QSOs in any single operator category in the CQ WW. He had the highest multiplier total ever of any single-op. Place a great operator in an ideal QTH with great conditions and a new record is a strong possibility. Jeff's expectations were to try for 18 million or so points, but the QSOs just kept coming.

A continent away on the Galapagos Islands, Rich, N6KT, who has won the contest a half-dozen times, talked HC8A past the old world record only to find that he had secured second place. Third place in the world went to José, CT1BOH, operating at P4ØE. All three operators exemplify the ideal contester—motivated, completely alert, and a careful planner.

Not to be outdone, Robert, GIØKOW, put his station and QTH to good use by shattering the old European single operator record by 3.1 million points! That's not an easy task, considering the European record has edged upward very slowly. A jump of such large magnitude is truly unique. The battle for second place was very close. Not far to the east of Northern Ireland can be found Steve, GW4BLE, who pushed his station to new heights and claimed second place in Europe. Farther north, Jukka, OH2MAM, took the ferry over to OHØZ and wound up with third-place honors.

*1816 Poplar Lane, Davis, CA 95616 e-mail: <k3est@cqww.com>



Frank, DL2CC, set a new Asian record from A61AJ.

In the USA, John, K1AR, once again demonstrated why he is a great operator. John put the K1EA station through its paces to win the top USA spot. Conditions were so good that he felt as if he was in the Caribbean. Dave, NT1N, a sort of newcomer to New England radio life, found out why they call W1-land the anti-black-

hole. Dave took the second-place position. Down in Washington, D.C., Fred, K3ZO, had one of his best finishes, coming in at number three in the USA.

The Top 10 World box has six continents represented. Take a close look at the outstanding efforts of 8P1A (W2SC), 3V8BB



JN1YUU-all ops are age 10 to 13 JA YLs!

TROPHY WINNERS AND DONORS SSB

SINGLE OPERATOR World All Band

EA8BH (Opr. Jeffrey Steinman, N5TJ)

Donor: Dave Rosen, K2GM – WA2RAU Memorial

World Low Power Pedro Katz, HC10T Donor: Slovenian Contest Club

World QRP Jacobo Oduber, P4ØB Donor: Doc Sayre, W7EW

World Assisted Malcolm Davenport, Jr., KI1G Donor: Snake River Contest Club

U.S.A John Dorr, K1AR Donor: Potomac Valley R.C. – KC8C Memorial

> U.S.A Low Power Ann M. Santos, WA1S Donor: North Coast Contesters

U.S.A. Zone 3 Robert Wruble, W7GG Donor: Bill Fisher, W4AN

U.S.A. Zone 4 Jerry Rosalius, WB9Z Donor: Bill Fisher, W4AN

Canada
Dave Dudley, VE3OI
Donor: Niagara Frontier Int'l DX Assn.
VE3WT Memorial

Caribbean/C.A. 8P1A (Opr. Tom Georgens, W2SC) Donor: Alex M. Kasevich, VP2MM

Europe Robert Cummings, GIØKOW Donor: Potomac Valley R.C. – W4BVV Memorial

Europe Low Power LY6M (Opr. Dainius Savicius, LY1DS) Donor: Scott Jones, N3RA & Tim Duffy, K3LR

Donor: Scott Jones, N3RA & Tim Duffy, K3Lf

Africa

3V8BB (Opr. Hranislav Milosevic, YT1AD) Donor: Gordon Marshall, W6RR

> Asia Hamad Al-Nusif, 9K2HN Donor: 2 AM Dayton Pizza Gang

Japan Satoshi Hara, JH5FXP

Donor: Japan Crazy Contesters Club

Oceania 9M8R (Opr. Jim Sullivan, W7EJ) Donor: Northern California DX Club

South America HC8A (Opr. Richard Smith, N6KT) Donor: Yankee Clipper Contest Club

South America – Mainland Horacio Botero, HK6KKK Donor: Jose L. Bachmann, ZP6CC & Cesar Ivaldi, ZP5K

SINGLE OPERATOR, SINGLE BAND World – 28 MHz ZD8Z (Opr. James Neiger, N6TJ) Donor: Joel Chalmers, KG6DX

World – 21 MHz 9J2A (Opr. Akira Minagawa, JAØJHA) Donor: Robert Naumann, N5NJ

World – 14 MHz OE6Z (Opr. Michael Schwab, OE6MBG) Donor: North Jersey DX Assn. – K2HLB Memorial World – 7 MHz P4ØR (Opr. Bob Allphin, K4UEE) Donor: Fred Laun, K3ZO – K7ZZ Memorial

World – 3.7 MHz VC1A (Opr. Yuri Blanarovich, K3BU) Donor: Fred Capossela, K6SSS

World – 1.8 MHz Jerzy Smoczyk, SP3GEM Donor: Robert Wruble, W7GG

USA – 28 MHz Bill Tippett, W4ZV Donor: Donald Thomas, N6DT

> USA – 21 MHz Robert Shohet, KQ2M Donor: World Radio

USA – 14 MHz Walter P. Smith, K1DWQ Donor: Southern California DX Club

USA – 7 MHz Bill Kollenbaum, K4XS Donor: Stanley Cohen, W8QDQ

USA - 3.7 MHz Peter J. Dalton, W6KW Donor: Arnold Tamchin, W2HCW

USA – 1.8 MHz Larry L. Lindblom, WØETC Donor: World Radio

Carib./C.A. – 28 MHz KP2A (Opr. Robert B. Hayes, KW8N) Donor: Snake River Contest Club

Europe – 28 MHz Zdravko Balen, 9A9A Donor: CQ Magazine – VP2ML Memorial

> Europe – 21 MHz Vitomir Kregar, S56M Donor: Tine Brajnik, S50A

Europe – 14 MHz Wilfried Gottschald, DJ7AA Donor: A. G. Anderson, GM3BCL

> Europe – 7 MHz Drago Turin, S59A Donor: Roger Burt, N4ZC

Europe – 3.7 MHz Emil Tafro, T99W Donor: Marconi Contest Club – I3MAU Memorial

> Europe – 1.8 MHz Virgis Matizevicius, LY3BS Donor: Robert Kasca, S53R

Oceania – 21 MHz 9M6NA (Opr. Saty Nakamura, JE1JKL) Donor: Bruce D. Lee, KD6WW

> Japan – 21 MHz Kazunori Kuroki, JR6EZE Donor: DX Family Foundation

Japan – 14 MHz Toshihiro Ishibashi, 7M4BEN Donor: Take Yokoyama, JL1BLW

MULTI-OPERATOR SINGLE TRANSMITTER World P3A (Oprs: RA9JX, 5B4LP, RZ3TX, UA9YAB, RVØAR, EU1AA) Donor: Southern California DX Club W6AM Memorial

U.S.A.
W2A (Oprs: W2XX, N2TX, KE2TR,
N2DVQ, KD2TT, AA2MF)
Donor: Carolina DX Association

Carib./C.A.
VP5R (Oprs: NØAT, NØKK, N5QQ, W5WW)
Donor: Eric Scace, K3NA

Asia UA7A (Oprs: RU9AN, RU9AZ, RW9MG, RZ9AZ, UA9AJ, UA9AR, UA9BA, UN4L) Donor: Edward L. Campbell, NT4TT

Europe TM2Y (Oprs: F6BEE, F6ARC, F6FGZ, F6FVY, F5NLY, F5SNJ, F5VCO) Donor: Bob Cox, K3EST

Oceania AH2R (Oprs: JG3RPL, JR3RVO, JI3ERV, KH2/JR8VSE, KH2/JR8PPG, JR7OMD) Donor: Junichi Tanaka, JH4RHF

South America PJ2C (Oprs:N4OKX, N6HR, W8KKF, WA8LOW, K8RF, W9EFL, WØCG) Donor: Victor Burns, Kl6IM

South America-Mainland CE3F (Oprs: CE3FIP, CE8ABF, CE8SFG, SM3SGP) Donor: Tomas Zappini, ZP5AZL & Renato Bellucci, ZP5XF

> MULTI-OPERATOR MULTI-TRANSMITTER

World
CN8WW (Oprs: DJ5IW, DK2OY, DK5WL,
DK6WL, DK7YY, DL1MFL, DL2NBU, DL4MCF,
DL6FBL, DL6RAI, DL8OH, DL8WPX,
DL9NEI, OE2LCM, OE2MON, OE2VEL)
Donor: W6NL & K6BL

U.S.A.
KC1XX (Oprs: KC1XX, K1GQ, K1EA,
KC1F, W1FV, AD1C, N1RR, DL7ALM,
KB1AWE, KM3T, K6AW, Christine)
Donor: Paul Hellenberg, K4JA

Europe M6T (Oprs: G4BAH, G4IFB, G3XTT, G3WGN, OH6YF, G4VMM, GØCYB, G4BUO, G4TSH, G4PIQ, GØMTN, G4BWP, GØKRL, GØAEV, GØWCW, GØAFH, G7OCD) Donor: Finnish Amateur Radio League

Japan JA5BJC (Oprs: JA5BJC, JA5FDJ, JA5JCC, JH5FXP, JH5RXS, JR5JAQ, JR5VHU, JM1UWB, JS1OYN) Donor: Ryozo Goto, JH3JYS

CONTEST EXPEDITIONS World Single Operator XX9TRR (Pertit Simovaara, OH2PM) Donor: National Capitol DX Assn. Stuart Meyer, W2GHK Memorial

WORLD MULTI-SINGLE T88WX (Ops: JA1WSX, JA7AYE, JH4OWG) Donor: Tachio Yuasa, JA9VDA

WORLD MULTI-MULTI R1MVZ (Ops: OH2BR, OH2KI, OH5BM, OH5NE, OH5SC, RA1ACJ, RA1ALY, RA3AUU, RU1AS, AB6BH, K6JL, N6AA, N6ZZ, W6NV) Donor: Dieter Loffler, DK9KD DJ3NG & DJ4El Memorial

SPECIAL SINGLE OPERATOR AWARD World-All Band Under 21 years old Hamilton Oliveira Martins, PY2YU Donor: Gene Zimmerman, W3ZZ

> WORLD ALL BAND HIGH YL Emily Thiel, P43E Donor: Yutaka Tanaka, JH3DPB



Seiko, JJ6TYG.

(YT1AD), 6V6U (K3IPK), 9K2HN, 8R1K (OHØXX), and 9M8R (W7EJ).

Low Power

Pedro, HC1OT, repeated his world high victory of 1998. Taking time off from his photography business, he produced a new low power record. Far away in ancient Egypt, SU9ZZ edged out Dan, LY6M (LY1DS), and Emily, P43E, for second place. He sure made a lot of deserving contesters happy with the SU/34 multipliers. Dan, LY1DS, pushed LY6M to a first-place win in Europe over fellow countryman LY3BA. Third place in Europe went to DKØDO, DL1MGB operator.

Here in the US, Ann, WA1S, repeated as the #1 USA low power champion. She took away the USA trophy. Ann sure knows how to work the QSOs, and her accuracy is among the best. The battle for second place brought that honor to K1SD, with WT1O taking third.

Special mention must be made of the head-to-head competition between K6RO and K8PO/6 for the top West Coast score. K6RO prevailed in a close battle. It is not easy to make the Top 10 box, especially from Asia or the Indian Ocean. Three stations did it this year. The top Asian score was achieved by RSØF, with JL1ARF placing number one in Japan and Bruce, 3B8/KD6WW, taking Africa.

QRP

First you make the decision to try something a little different. Then you try something really difficult. Then you discover QRP in the CQ WW. With only a few watts output, the strategy you choose is almost always search & pounce (S&P). What a great way to learn very important contesting skills.

Jacobo, P4ØB (P43P), put his location and skill to full use to win the world QRP. He was able to run stations for a short time, but had to S&P most of the time. Jacobo's QTH is on the northwest coast of Aruba.

The next QRP champions were from Europe. YT7TY took top European honors, followed by F5MUX and I5NSR. The number one

USA QRP scorer was KQ3V, followed by WT3W and WAØJYC. Special mention has to be made of the QRP Asian scores of RZØSR and JA6GCE. They are a long way from population centers.

Assisted

The year 1999 was the Assisted category's biggest. With over 300 entries, this category offers a way for DXers and contesters to contribute to their club. The category always attracts very good operators who want to try to maximize their multiplier effort. The secret to doing well in the Assisted category is to remember the QSOs are the name of the game—hard to do with so many juicy multipliers flying by on the screen every hour. The world top honor went to Rick, KI1G, who finished ahead of Dave, KH2/N2NL. Dave's score was quite a feat from the far Pacific. Third world high and first in Europe was John, ON4UN. Second place in the USA went to Charlie, K3WW, who sure knows how to operate this category. Third place went to Lou, KS1L. In Europe second place went to André, F6GYT, who used the contest call TM2V, and third place was won by Ozren, 9A7W, operating 9A5Y.

Multi-Single

Cyprus is fast becoming a popular location from which to mount a challenge for top honors. This year was no exception. P3A operated by a team of Russian, Cypriot, and Belarus contesters pushed their station to the clear number one spot. After several years of experience on the island, the P3A team has found the right QTH. Second world honors went to the Canadian team located at the VE3EJ QTH. You can see a photo of John's QTH on the cover of January 1996 CQ Contest magazine. Not very far behind was the French team of TM2Y. Located in northeastern France, they used their experience to take the highly fought over top European spot. Second in Europe was the IQ4A team. Having lost part of their land, they had to consolidate their antennas into a smaller area on top of Mt. Capra. The third-place European champion was CQ9K. Using a special callsign, W2A ran away with the top USA position—not an easy task! Second place went to the Frankford Radio Club power house, N2NU, and third went to the northern Ohio team of K8AZ. The multi-single category is great fun. If you get a chance to join a team, you will find it a real learning experience.

Multi-Multi

Zone 33 was clearly the place to be for the 1999 contest. Winning is one thing. Setting new standards while turning conventional wisdom on its head is another. The crew of CN8WW clearly did both. With a score which at first glance seems like a typo, they worked almost 23,000 QSOs and made 73+ million points! In one contest they made the job of beating the world record from zones 9 and 10 seem like a herculean task. Operating from northern Morocco from a beach front where all their antennas were located, the CN8WW crew clearly did their homework. Their submitted log was very clean.

Finishing in second place was the Italian crew of IG9A. Putting another zone 33 into the top box, this team set up their station on Lampadusa Island. They also broke the old multimulti record set by the third-place finishers, PJ4B. All three top multi-multi scores beat the old world record—some more than others.

In the USA, the crew at KC1XX and K3LR

TEAM CONTESTING

- **1. Neiger's Tigers #1: 66,546,582.** P4ØE(CT1BOH), HC8A(N6KT), EA8BH(N5TJ), GW4BLE. **2. CCF Unlimited: 27,609,020.** XX9TRR (OH2PM), 8R1K (OHØXX), OH5LF, OH1VR, OHØZ (OH2MAM).
- 3. Team Nippon: 21,314,108. 9J2A (JAØJHA), 9M2TO (JAØDMV), 9M6NA (JE1JKL), JY9NX (JM1CAX), V8A (JO1RUR).
- 4. Neiger's Tigers #2: 18,653,550. ZX5J (PP5JR), UA9MA, W1WEF, W9RE.
- 5. Bavarian Chaos Crew: 12,719,201. DF4RD, DF7RX, DKØDO (DL1MGB), DL3NCI, DL4NAC.
- **6. CCF Max-3-Towers: 11,040,774.** OH6RX, OH6NIO, OHØV (OH6LI), LU/OHØWW (OH1EB), OH8BQT.
- **7. Beverly Contest Group: 8,911,148.** K1ZM (W1NT), W1ZT, K1EO, K1JE, W1TE.
- 8. Neiger's Tigers #3: 5,867,980. CT1ELP, ZD8Z (N6TJ).
- 9. Dream Team: 5,703,608. LY1FW, LY2OX, LY5W (LY1DR), LY6M (LY1DS).
- 10. CCF Singles: 3,094,674. OH8LQ, OH2RA, E44DX (OH1RY), OH1JD.
- **11. Novi Sad Contest Team: 1,125,169.** YU7QL, YU7W, YU7WJ. **12. CCF Lounge Team: 238,215.** OH9A (OH1EH), OH1BOI.
- 13. CCF Part-Timers: 173,032. W5/OH7WV, OH4A (OH4JLV).
- 14. Isla de la Torre Team: 166,535. EA1BAW, EA1AAW, EA1ATQ, EA1EB, EA1/YV5NIQ.

TOP SCORES						
WORLD	21 MHz	USA	K6KAY294,630		RU4PL740,124	
All Band	VC7A1,113,196			EUROPE	S57IIO521,840	
	PY2P925,453	All Band	W5ZO289,674		SP5ES497,336	
EA8BH25,646,796	TA3D819,674	K1AR7,898,499	WJ7S210,420	All Band	UA3ADN475,794	
HC8A18,607,050	RU4PL740,124	NT1N6,908,603		GIØKOW10,457,664 GW4BLE6,657,018	UT9F406,481	
P4ØE15,583,506 8P1A11,013,948	UAØFDX705,860	K3ZO6,171,165	21 MHz	OHØZ6,620,832	HA9MDP402,371	
3V8BB10,939,698	XE1CRO545,860	K4ZW5,859,104	N4MO273,966	S5ØA6,504,693		
GIØKOW10,457,664	X210110010,000	K3OO5,699,012	ND8DX242,959	4N9BW5,862,172	14 MHz	
6V6U9,562,950	14 MHz	WB9Z5,503,582	NØNR227,696	S57S5,840,250	TM9K446,042	
9K2HN9,330,834	HK3JJH822,822	K3CR5,181,670	NI5M209,000	OH6RX5,365,115	HAØIT425,712	
8R1K9,121,163	RJ9J716,720	W1WEF5,079,638	NW7Q189,596	RM4W5,197,066	EA2CJC355,927	
9M8R8,662,544	3E1DX673,608	N2IC/Ø5,074,398	NØRA175,968	SL3A4,974,200	RA3WA277,264	
	TM9K446,042	W3BGN4,954,633		DJ4PT4,586,742	IT9ICS273,208	
28 MHz	HAØIT425,712		14 MHz		EA3KA252,000	
ZD8Z3,794,280	LS9F408,114	28 MHz	WA7BNM/6136,708	28 MHz		
ZX5J3,086,148		W4ZV1,400,870	KG7RZ65,535	9A9A2,272,950	7 MHz	
KP2A2,324,283	7 MHz	K4EA1,308,736	W9HV55,500	OK2RZ1,794,729	IR5T172,909	
WP2Z2,297,199	IR5T172,909	N4UK1,295,294	W9JOO54,099	9HØA1,658,916	S54A87,248 SP9ABU32,178	
9A9A2,272,950	YY5OIA148,599	K5RX1,091,870	AF8C47,634	S53R1,568,392	RW3DU28,301	
A61AJ2,177,156	YV5NCK94,900	KZ5MM1,059,377	KN5L41,610	CT1BOP1,499,532	T91AAW25,853	
04 8811-	S54A87,248 UA9ACJ38,214	WC4E963,333		S53T1,315,310	OE3WMW19,053	
21 MHz	SP9ABU32,178	***************************************	7 MHz	21 MHz	0_011	
9J2A2,331,054	OI 3/LDO32,1/0	21 MHz	WB2ZTH20,676	S56M1,223,694	3.7 MHz	
P43A2,284,828	3.7 MHz	K8DX1,235,388	KU6T6,059	OK1RF1,096,480	9A2EU138,303	
9Y4VU 2,013,050 YV5IVB1,678,950	TA3J178.128	W7WA1,004,988		ERØF1,075,392	UA6LV63,140	
5NØW1,625,406	9A2EU138,303	N7DD972,027	3.7 MHz	SP7GIQ1,056,396	LZ1UQ63,084	
H2T1,405,760	UA6LV63,140	KØCL849,603	No Entry	S5ØU1,055,934	S57CBS55,029	
1.21	LZ1UQ63,084	K3RV/4784,492		DL1IAO1,023,975	UR5QBB52,388	
14 MHz	S57CBS55,029				YU1CC48,198	
OE6Z1,878,569	4L2M53,884	K4JNY537,900	QRP	14 MHz	4.0.841-	
DJ7AA1,822,464		4.4.8411-	All Band	OE6Z1,878,569	1.8 MHz EU6EU37,926	
OK1RI1,431,846	1.8 MHz	14 MHz	KQ3V843,720	DJ7AA1,822,464	S57NMQ26,488	
9Y4NZ1,429,672	EU6EU37,926	K1DWQ321,945	WT3W703,993	OK1RI1,431,846	DF9LJ10,718	
OH8LQ1,196,432	S57NMQ26,488	W4RRR308,784		OH8LQ1,196,432	UT7UW10,168	
EA3ATM1,162,599	DF9LJ10,718	KGØZI211,400	WAØJYC273,182	EA3ATM1,162,599 G3NLY968,064	G3XWZ8,427	
	UT7UW10,168	W5FO194,724	WA3NKO/4160,962	G3NL1908,004	IØKHP4,840	
7 MHz	G3XWZ8,427	W7EB180,495	N1TM123,690	7 MHz	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
P4ØR500,000	VE7SV6,289	W8TWA168,192	W9PNE81,713	S59A484,050	QRP	
S59A484,050	QRP		N8XA73,382	HG9X422,808	All Band	
HG9X422,808 YT7A416,139	All Band	7 MHz	N6ZS58,968	YT7A416,139	YT7TY1,180,635	
S52O390,555	P4ØB2,018,688	K4XS371,637	NM1K57,534	S52O390,555	F5MUX1,060,878	
K4XS371,637	YT7TY1,180,635	K7EM198,996	NQ7X49,432	IO4L302,853	I5NSR844,512	
14701,007	F5MUX1,060,878	K7NV54,166		LZ2CJ294,294	LY2FE823,970	
3.7 MHz	I5NSR844,512	WØLSD50,076			YU1KN535,150	
VC1A305,000	KQ3V843,720	N5DO42,770	Assisted	3.7 MHz	EA3CKX448,818 EA1GT373,730	
E44DX261,590	RZØSR834,750	KE4SCY29,637	All Band	T99W150,920	YU1LM371,995	
VE1JF158,974	LY2FE823,970		KI1G7,639,478	SP7VC149,904 DL3LAB147,805	UU4JO336,679	
T99W150,920	WT3W703,993	3.7 MHz	K3WW6,310,200	S57O138,993	HA7YS310,753	
SP7VC149,904	JA6GCE618,094	W6KW83,600	K2BU5,907,918	EW1WZ126,276	•	
DL3LAB147,805	YU1KN535,150	KE1Y69,192	N3RR5,901,750	YZ6A118,678		
	A ! - A I	WØCD/837,446	KS1L5,895,897		Assisted	
1.8 MHz	Assisted	K7ZZZ22,140	K2NG5,440,030	1.8 MHz	All Band	
SP3GEM86,516	All Band	WØAH9,662	W2RE5,298,144	SP3GEM86,516	OT9T7,048,074	
LY3BS68,612	KI1G7,639,478 KH2/N2NL7,619,776	K2FF/59,072	W2GD5,001,930	LY3BS68,612	TM2V5,795,370	
OK1DX62,530	OT9T7,048,074		W3EEE4,997,877	OK1DX62,530	9A5Y4,827,020	
OZ3SK46,208 ZF2LA40,545	K3WW6,310,200	1.8 MHz	N3AD4,711,791	OZ3SK46,208	F5RZJ4,277,460	
7S6A24,766	KS1L5,913,960	WØETC6,318		7S6A24,766	DJ2YA4,239,585 UTØU4,219,046	
. 55	K2BU5,907,918	W2VO2,993		LY2OU12,936	DF4RD3,530,555	
Low Power	N3RR5,901,750	K4TEA1,275	Multi-Operator	Low Power	OK2FD3,348,360	
All Band	TM2V5,795,370		Single Transmitter	All Band	EA7AGW3,071,410	
HC1OT6,006,550	K2NG5,440,030		W2A10,783,788	LY6M4,367,360	OH6NIO2,836,024	
SU9ZZ4,823,882	W2RE5,298,144	Low Power	N2NU8,760,304	LY3BA3,044,888	,,•=.	
LY6M4,367,360		All Band	K8AZ8,356,205	DKØDO2,265,189		
P43E4,312,452	Multi-Operator	WA1S3,064,986	K8CC7,161,844	CT1ELP2,073,700	Multi-Operator	
RSØF3,393,404	Single Transmitter	K1SD2,101,764	K5MR6,874,863	DF7RX2,073,500	Single Transmitter	
WA1S3,064,986	P3A17,321,994	WT1O1,979,649	K4ISV6,410,808	S55A1,884,450	TM2Y14,703,147	
LY3BA3,044,888	VE3EJ14,770,600	N1HOQ1,769,508		S59AA1,825,140	IQ4A13,688,588	
JL1ARF3,001,683	TM2Y14,703,147	K6RO1,708,938		HA1CW1,662,966	CQ9K12,440,610	
3B8/KD6WW	IQ4A13,688,588 VP5R 13,492,710	K8PO/61,610,564	Multi-Operator	DL7ANR1,569,584	SN2B12,294,892	
2,534,468	VP5R13,492,710 6D2X13,002,714	K1VUT1,596,000	Multi-Transmitter	GW3JXN1,437,678	DFØHQ11,384,976	
UP5P2,499,800	JDL/10,002,714	WD5K1,430,100	KC1XX25,963,386	00 8411-	TM1C11,304,956	
28 MHz	Multi-Operator	W2TZ1,422,244	K3LR25,709,664	28 MHz		
KHØ/JF1RPZ	Multi-Transmitter	N1WR/31,368,075	N2RM24,430,230	9A4KK843,447	Multi-Operator	
1,066,032	CN8WW73,194,876	1417411/01,000,0/0	W3LPL21,168,659	Z31JA715,929 DL1LH715,007	Multi-Transmitter	
HC1JQ994,224	IG9A61,215,336		K9NS15,380,904	F5BZB616,137	M6T29,338,624	
PY1KS962,822	PJ4B59,127,810	28 MHz	N3RS13,823,641	CT1ESO596,786	RW2F23,815,161	
LU3HIP912,170	ZXØF41,625,828	KØKE438,075	. 10.10 10,020,041	9A99F589,260	OT9A22,481,380	
9A4KK843,447	EA9EA40,590,074	KT3RR390,260		,_30	OH2U20,479,356	
VP2VF832,710	KH7R33,588,440	K2MFY303,524		21 MHz	GM7V18,798,580	

had a real fight. When the electrons settled down, it was Mat's team at KC1XX who prevailed and set a new USA multi-multi record. After a lot of work making even higher towers and bigger antennas, the KC1XX crew can now almost see Ireland from the top of the 300 foot, 80 meter quad tower. Not at all intimidated, Tim's crew at K3LR once again demonstrated their considerable skill by taking second place. Third place went to another East Coast powerhouse, N2RM.

Not to be denied, the European champion, M6T, rose to the occasion and set a new European multi-multi record. The M6T crew set up their station Field Day style on a farm. Second place in Europe went to the always present RW2F. The RW2F crew is to be congratulated for such a great score from so far north. The third position in Europe went to OT9A.

When you look at the top multi-multi scores, bear in mind many of them were DXpeditions with most of the stations being assembled where there were none before: CN8WW, IG9A, PJ4B, and M6T. Quite an effort.

Team Contesting

With only four out of five members submitting logs, Neiger's Tigers #1 talked their way to a new world team record! With 66.5 million points in their logs, they sure made it clear who was the king of the hill. The battle for second through third place was interesting. Taking second place was Contest Club Finland Unlimited (CCF). They edged out third-place Team Nippon. If you check the calls on these teams, you will find many a rare multiplier. Why not talk to your friends around the world and form a team of five? It's easy and fun, and you will develop team spirit. Look at the rules in this issue and on the CQWW web page https://www.cqww.com for all the necessary information.

Special Mention

Every year the CQWW attracts contesters who travel to distant QTHs. A special thanks to the following DXpeditions: ZF2NK, ZF2LA. TI5EBU, VP2MGL, VP2MBT, KP4/SM5AOE, V47KP, V47NS, PJ8/N7KG, KP2A, WP2Z, KP2/K1VW, KP2E, ZD8Z, XT2HP, EA8BH, 9E1C, 3B8/KD6WW, 6V6U, S79AU, 3V8BB, Z21KD, XX9TRR, E44DX, A61AJ, OHØZ, ZA/S51PF, ZB2/W8DO, ZB2/AA3SN, 9H3AAA, V8A, 9M8R, 9M6NA, 9M8YY, KHØ/JF1RPZ, KHØ/JE3WOM, T2DX, YJØDX, FW/JM3XAV, P4ØE, P4ØR, HC8A, 8R1X, PJ9/ON4CFD, 5B4AGD, OHØV, HI9/DK8YY, 6D2X, XE2/N7RK, VP2MCS, J6J, FS/K7ZUM, VP5R, VP5DX, NP2B, P3A, ZA/S57AW, T88WX, AH2R, PJ2C, V26B, J3A, J6R, VP5T, IG9A, IH9P, CN8WW, HBØ/HB9AON, R1MVZ, T33Y, ZXØF, and PJ4B.

The competition was fierce in many categories. Check out the scores to find them. For starters, look at the USA multi-multi battle for the top position, Europe 3.7 MHz, Z31JA vs DL3LAB, KP2A vs WP2Z, JH5FXP vs JH4UYB, V8A vs 9M8R, L99D vs LT7H, LTØH vs LU7YS, XR1X vs CE8EIO, S55A vs S59AA, and S58J vs S57J. There are many more such close races as well.

There were many outstanding efforts from propagationally challenged areas. The top USA score from west of the Mississippi was Steve, N2IC/Ø, followed by W7GG and WØEJ. Out in the Pacific, Jim, 9M8R (W7EJ), edged out V8A (JO1RUR), with AI, NH7A, third.

KL7RA's effort in the multi-multi category was outstanding. W6KW finished first in the USA on 3.7 MHz, and WØETC was first on 1.8 MHz! The club station JN1YUU was operated by 10–13-year-old YLs, and UX8IXX was operated by young students. If you work those stations, be sure to give some encouragement to these youngsters.

New All Time SSB Records set:

World: AB EA8BH (N5TJ); 28 ZD8Z (N6TJ); L3.7 TA3J; Q28 KP4FP; Q14 KR2Q; A28 5X1T (ON6TT); A21 VA3MM; A14 RN3QO; A1.8 S57M; MM CN8WW.

Africa: AB EA8BH (N5TJ); 28 ZD8Z (N6TJ); A28 5X1T (ON6TT); MM CN8WW.

Asia: 28 A61AJ (DL2CC); 3.7 E44DX (OH1RY); L14 RJ9J (RA9JR); L3.7 TA3J; A1.8 EX8MBA; MS P3A.

Japan: QA JR4DAH; Q7 JA6GCE; Q3.7 JA1AA; MM JA5BJC.

Europe: AB GIØKOW; 28 9A9A; 14 OE6Z (OE6MBG); LA LY6M (LY1DS); L28 9A4KK; L21 RU4PL; 3.7 9A2EU; QA YT7TY; A28 SP3KEY; A21 OHØV (OH6LI); A14 RN3QO; A1.8 S57M; MM M6T.

North America: L21 VC7A (VE7AHA); L1.8 VE7SV; Q28 KP4FP; Q14 KR2Q; A28 KP4WW: A21 VA3MM.

USA: 28 W4ZV; 21 KQ2M; LA WA1S; Q14 KR2Q; AA KI1G; MM KC1XX.

Oceania: L28 KHØ/JF1RPZ; QA DU3RCM; Q28 NØKE/KH6; Q3.7 KH6SQ (W8QZA); AA KH2/N2NL.

South America: AB HC8A (N6KT); LA HC1OT; L14 HK3JJH; MM PJ4B.

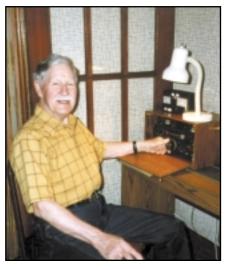
Comments

The 1999 contest was definitely a great one. Beyond the great conditions, your help by submitting an electronic log made the contest the most thoroughly checked in history. We received over 3000 e-mails and disks. That was about 75% of the total logs received at CQHQ. Your effort to submit an electronic log allows for a fairer adjudication process.

Submitting an electronic log is easy. Send your SSB log and summary to <ssb@cqww. com> by December 1, 2000. Please try to send your log in Cabrillo format. The Cabrillo format is now a standard submission with CT, TR, NA SuperDuper, and WriteLog. Please remember to name your file with your call with .cbr extension-e.g, PJ4B.cbr. If you have an older version of any standard logging software, send the following files: CT.all, TR.dat, NA.prn. Of course, include the .sum file if it is separate. If you are multi-single, please send your CT.bin file, because there are two .all files for the multisingle category. Please do not submit programspecific files such as spreadsheets—for example, Excel, Microsoft Word, or any other nonstandard format. If you have any questions about the CQ WW please send them to: <questions@cqww.com>. You can see information concerning the CQ WW on our web page at: http://www.cgww.com">.

Play by the Rules

One of the problems that has been around for years and years is bending the contest rules. Every year the CQ WW Contest Committee receives complaints about individuals who are thought to be cheating. The main method used in a tricky manner has two manifestations. One is a single operator entrant who has the help of several people to find QSOs or multipliers, for



Brice, W9PNE, 81 years young.



Operating 14 MHz from Argentina was LU7YS.

example. The Contesting Reflector has been replete with information concerning possible violators. The reflector is an ideal forum to air such complaints. Peer pressure is the best way to inform an errant contester to follow the rules. The winners on every level have in contesting want the assurance that their competition is playing fairly.

The second method is the violation of the distance rule by multi-single and multi-multi teams. You are not allowed to have stations of any kind located all over a country, city, or island. We are aware of several such violators, and as we collect evidence in the future they will be disqualified.

Thanks!

Each year the results you finally see in this issue are the result of thousands of hours of work by the CQ WW Contest Committee. The log checkers were: N3ED, K1DG, KR2Q, N2NC, K6NA, W7EJ, N5TJ, and N9RV. Problem logs (decoding) were handled by W3ZZ, N5NJ, and JE1CKA. Converting paper logs to electronic form was handled by K3LR, K3ZO, and N2NC. Helping to proof-check the call database were K3LR and N5TJ. DX members of the committee helped obtain PTT databas-

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSOs/Zones/Countries on each band

WORLD TOP SINGLE OPERATOR, ALL BAND

USA TOP SINGLE OPERATOR, ALL BAND

					_	071 . 0. 0							
Station	160	80	40	20	15	10	Station	160	80	40	20	15	10
EA8BH	150/13/54	547/18/80	682/27/97	2655/40/159	2071/39/148	4146/40/155	K1AR	21/8/15	154/16/59	231/29/84	1145/38/142	1150/36/123	1392/33/128
HC8A	229/14/30	569/25/79	924/29/102	1154/36/116	1848/37/135	3915/34/133	NT1N	39/12/33	118/17/62	126/20/68	703/39/129	616/33/111	2026/35/140
P40E	80/12/26	426/19/66	649/25/81	1392/36/118	1627/37/121	3642/37/121	K3Z0	11/5/10	78/14/39	122/17/58	966/34/113	1134/33/107	1433/33/122
8P1A	96/7/17	437/16/48	797/24/87	1471/31/98	2273/31/99	2778/31/104	K4ZW	33/11/21	154/15/64	139/26/71	704/31/117	749/31/117	1357/34/123
3V8BB	213/6/47	430/15/65	339/21/84	1493/34/111	1195/35/116	2127/36/123	K300	20/7/14	120/14/58	135/21/65	723/34/126	612/30/110	1564/33/134
GIØKOW	134/6/45	373/15/71	600/24/85	1614/35/114	1765/38/130	1890/37/144	WB9Z	35/9/18	87/19/47	130/24/68	296/32/92	1054/36/119	1557/36/131
6V6U	9/7/9	83/10/25	388/20/64	1569/31/98	1571/31/107	2498/29/107	K3CR	31/9/15	147/14/54	121/20/59	751/35/110	865/33/104	1312/30/115
9K2HN	18/5/16	72/8/35	573/27/96	1503/39/121	1179/38/131	1674/39/132	W1WEF	20/9/12	104/16/52	122/18/60	554/33/106	727/32/99	1589/32/124
8R1K	29/6/17	183/12/27	518/17/65	937/31/92	1575/33/116	2664/32/115	N2IC/Ø	25/8/10	108/18/41	264/25/57	567/33/105	774/38/115	1282/35/133
9M8R	11/4/7	114/20/40	436/35/89	1069/38/134	1134/38/108	2074/37/114	W3BGN	34/12/18	127/17/59	148/23/74	618/37/113	762/32/100	1153/30/114
WORLD MULTI-OPERATOR SINGLE TRANSMITTER				R		USA	MULTI-01	PERATOR	SINGLE TR <i>i</i>	NSMITTER			
P3A	198/8/50	575/19/81	854/24/98	1964/37/142	1829/38/139	1829/38/165	W2A	15/9/14	198/17/76	295/27/102	1203/40/164	1623/38/153	1334/38/166
VE3EJ	263/15/30	447/21/76	800/34/123	1478/40/173	1378/40/158	1825/37/173	N2NU	33/15/31	196/17/77	364/29/109	813/40/153	999/39/146	1394/36/162
TM2Y	93/8/56	447/21/90	587/35/116	912/39/161	1746/38/152	2601/40/177	K8AZ	34/14/29	120/21/69	132/29/101	944/40/159	933/37/144	1519/36/166
IQ4A	59/7/59	87/18/83	422/29/111	1641/39/151	1566/40/143	591/40/155	K8CC	21/11/18	58/17/47	196/29/84	832/40/154	932/37/139	1458/36/161
VP5R	169/11/26	496/17/69	813/22/91	1786/33/122	2059/35/126	2918/33/141	K5MR	37/12/23	66/23/56	207/30/98	831/38/152	847/38/140	1219/37/160
6D2X	196/9/16	457/20/52	1283/31/112	1266/37/135	1382/37/142	2965/34/153	K4ISV	29/13/26	84/23/64	306/31/108	366/38/137	1128/39/144	1245/37/171
	WORI	LD MULTI-	OPERATO	R MULTI-TF	RANSMITTE	R		USA	MULTI-0	PERATOR	MULTI-TRA	NSMITTER	
CN8WW	1035/18/83	2220/25/118	2717/35/141	5900/40/186	4978/40/181	6112/40/191	KC1XX	197/16/36	699/24/102	746/31/119	2711/40/185	3245/40/170	2596/36/170
IG9A	1190/17/86	2451/32/117	2988/39/139	5207/40/184	3937/40/182	4543/39/177	K3LR	259/16/40	697/26/94	893/34/126	2647/40/192	2827/40/169	2682/37/178
PJ4B	599/16/37	1175/21/103	2234/33/136	4699/39/180	5637/40/190	6273/39/188	N2RM	175/17/43	652/27/110	730/34/122	2243/40/176	2919/40/173	2649/36/171
ZXØF	249/16/54	766/26/94	1566/34/122	3894/40/167	4546/39/179	5241/40/185	W3LPL	252/17/45	542/24/100	740/34/121	2471/40/182	2360/39/163	2148/37/175
EA9EA	44/3/17	977/23/92	2193/35/130	4234/40/173	4022/38/169	4260/40/178	K9NS	268/17/35	233/26/78	347/31/105	1613/40/171	2039/40/156	2212/37/166
KH7R	253/13/18	929/27/57	1920/37/96	3125/39/155	3616/39/149	4820/40/160	N3RS	38/14/25	249/19/85	335/28/100	1298/40/160	2204/38/162	1779/35/165

es and provided help when entrant interface was necessary: F6BEE, JE1CKA, OH2MM, CT1BOH, OH2KI, ON6TT, G3SXW, I2UIY, EA3DU, OK2FD, S5ØA, DL6RAI, and VE3EJ. Special advisors were UA9BA, K3ZO, PY5EG, and VA7RR. The CQ WW log checking software is kept current through the efforts of N6TR. The CQ WW web site is made available by K2MM. All the SSB electronic logs were processed by N6TW before they were placed in the call database. Larry also updated the CQ WW web page with the UBN reports. Dick, N6AA, spent long hours RITing the call database into a usable form. The call database was over 3.5 million calls!

Thanks to all the entrants for their electronic submissions. Congratulations to all the entrants and winners! The 2000 CQ WW Contests should provide another fantastic experience. Join the SSB on October 28–29, 2000!

73, Bob, K3EST

DX QRM

Very good and numerous the participation. Excellent the opening on 10 meters, allowing to work totally. Very good it would be that to future, a space is assigned to operate with high power and for separate those of low power... 4B1BEF (XE1BEF). The rarest thing when contesting from 4U1VIC is time. Due to security reasons station and antennas can be put together not earlier than late Friday afternoon and everything has to packed up directly after the contest. Thank goodness that there is an "open-all-night" version of that famous burger restaurant next to the UN building. Thanks to JH4RHF and the rest of the VIARC. You have been great hosts... 4U1VIC. No cluster access, but a couple of people helped me working a multiplier, so guess that puts me in the Assisted class. This contest was at the peak of the 11-year cycle, at the yearly peak for 10m, and at a point with low indices. How much better could it get? 10m was open with massive signals 24 h/day. Pileups spread from 28,200 to 29,250.1 MHz full with contests. Never heard that before. It is always a yearly high to hear, as the starting time of the contest come closer, people setting up stations, coming on the air from rare places, and then actually warming up for the contest a few hours before. Like Formula 1 drivers blowing smoke while warming up. This was my last radio-weekend in 5X...5X1T (ONETT).

Good conditions most of the time apart from dusk and sunset in E. Africa when conditions die. Lost electricity power (the usual thing in Mombasa) on two occasions and lost about 3 hrs in total. Although working single band, single operator, many stations repeatedly requesting me to QSY to other bands even before giving me my report. Why should I want to QSY having found a good spot on 28 MHhz and working a very large pile-up!?...5Z4IC. Good propagation on 80 meters, but lot of QRM in Europe and it was very difficult, from time to time almost impossible, to copy DX stations even if their signal was 59, because the QRM level was 59++most of the time... 9A2EU. First I have to thank Ralph, 9G1RQ, for his help with my license and equipment. This was my first contest from Africa. Great condx! Ten was open full 48 hours! Had some really nice runs with over 200 QSOs/hour. The "rate meter" (K1EA) showed over 400 couple of times. Pity I was so tired. Slept just 2 hours before the contest and was unable to stay on all the contest. I know I lost very much. Hope it will be much better in CW part. Congratulations to ZD8Z and ZX5J for outstanding results. Great job!...9G5ZW. This is the first time to enjoy WW test outside from Japan. Enjoyed very much but it was tough to work US stations from here with wire ant. and 100W!...9M2JI (JK1AJX). My first SSB effort from 9M6NA!...9M6NA (JE1JKL).

Great condx on 10 meters, station on condo lanai in Urban Honolulu. Note: Not KH7R...AH7R. The last contest of the century is always a wonderful experience. 20 meters was poor propagation conditions in my country, 10 meters best band... CE3PA. This was another great contest! Although propagation wasn't good as I expected, I beat my previous record. Sad thing is "big gun station" behavior: Rules should say they could have at least 10 kHz just for them! Last, but certainly not least, I was very well surprised by a lot of young contesters (under 15). The highlight of this CQ WW was a QSO with a 10-year-old boy. That made my day!!! Please keep on the good work. CU next year!...CT1EAT. It was my first CQ WW DX and tried only 10m, because very good propagation on this band. I used only 100W from my TS850S and a 5/8 vertical, but 20m high on a hill 930m. I'm surprised about so many countries I can work and cuagn in 2000...DF2GN. Great conditions, as a handicapped operator I had my problems but fun. A lot of the MM or MS stations do not mention enough their call during the operation. I guess to give up the "separate Assisted class" would be a good idea. Cheating would be less and the whole contest would be more fun. Everyone has again the same chance... DJ6QT. Hope to get a new record in DL and Zone 14! First time I could easily work NA on 40m with my new antenna. Condx were great on the high bands. And hope to improve next year...DK8DO (DL1MGB).

The best contest result I have in my life. Nice condx to the West Coast on Sunday and great to work AH8A. Over 1172 QSOs with US, what a nice run! So I hope to have a good place and congrats to WP2Z for this nice result on 10m... DL8UD. My first time to join the contest. Despite static and sometimes bad propagation, I had a great time as a single operator on 10m band... DU1TJM. With MUF peaking at least to 44 MHz along the equator, 10 meters have been so good! Activity heard here from 28.230 (yes...) to 29.125. I had not made a contest QSO above 29 MHz since I had the bands restricted license (in early '80s). Something got me tired; almost half of North American STN took my call at first as EA3DUW, or said "EA3DU question mark, give me last letter." It looks many people using the same database trusted too much in it...EA3DU. Normally, I work many hams from zone 29 and few from zone 2, but in this contest I worked a lot from zone 2 and not any from zone 29. All hams from zone 29 moved to zone 2?...EA3EJI. Beautiful propagation, but the amplifier don't work okay and only put 400W on the air. Where was Thailand to complete the WAZ in two days?...EA3QP. As it can be seen, I worked only a few "sessions" only to have a try at it and enjoyed it a lot. I was really amazed of the results with my President Lincoln monoband transceiver and CB GP 5/8-wave antenna. I would have been happier with more DX countries worked, but not bad for so few time and equipment conditions anyway. Until next year!...EC5ACA.

HF conditions fantastic with 10m open until late evening. It was difficult to find a clear

QRG on 10m. All the illicit ops seemed to QRT for the weekend. Maybe we should have CQWW every weekend on 10m !...*EIADW*. What an incredible contest on 10m. DXCC in less than 8 hours on a single band, and that with the tower cranked down to 25 ft. due to gale force winds. Even Little Pistols got to feel like Big Guns in this year's contest...*EI6FR*. Very thanks for the nice contest. See you next year... *ERBF*. Just on vacation. Huge cliffs behind the hotel, no Europe, no Asia, no Africa...*EA8/ESTRE*. As usual a lot of fun. Thank you for the points, guys!...*EW1WZ*. Blew one transceiver, one TV set, and had a lot of fun!...*F5KEM*. Many thanks for fun during the contest. It was hard with 100W and a R5 antenna but the FT1000MP make a great job (thanks DSP...) and help me to work some *new one...F5NBK*. Not much of a score but we beat last year's effort anyway. We'll be back for more. Don't forget it's just a hobby!...*FM5BH*. Great condx on 10m. Worked A61AJ on the Saturday morning; didn't think he had my call, so didn't log him. Lesson learned; will know better next time. Thanks for the effort you guys are putting in doing the logs...*GBNWY*. It's been five years since I tackled "The Big One" seriously and was delighted that I could still last the course. By the courtesy of G3VHB I had a tower/beam combination with real clout so that the likes of FO, FK, and T30 were calling me! A rare experience indeed!...*G3NLY*.

EUROPE TOP SINGLE OPERATOR, ALL BAND

Station	160	80	40	20	15	10
GIØKOW	134/6/45	373/15/71	600/24/85	1614/35/114	1765/38/130	1890/37/144
GW4BLE	62/4/34	206/14/56	431/19/71	873/30/95	1286/34/92	1748/35/109
OHØZ	134/5/38	423/13/62	424/24/82	1172/33/95	1181/35/97	1434/36/113
S50A	62/5/34	295/18/67	324/24/74	1034/36/112	1000/34/109	1419/35/115
4N9BW	178/7/56	425/15/69	539/31/102	742/35/123	1347/36/126	713/37/127
S57S	58/5/38	291/12/54	333/25/79	687/30/113	573/31/98	1806/37/128
OH6RX	53/6/33	95/11/52	153/22/65	1089/35/95	1440/35/102	969/33/107
RM4W	45/6/26	115/11/44	503/22/76	861/33/92	1203/34/106	1337/33/119
SL3A	149/6/44	208/14/56	493/24/82	1072/32/93	1245/33/96	865/33/103
DJ4PT	100/7/36	236/16/58	407/26/69	914/32/100	677/30/86	982/33/89

FIIKOPE	MIIII II	·OPFRAIOR	SINGLE	TRANSMITTER

TM2Y	93/8/56	447/21/90	587/35/116	912/39/161	1746/38/152	2601/40/177
IQ4A	59/7/59	87/18/83	422/29/111	1641/39/151	1566/40/143	591/40/155
CQ9K	108/9/36	390/17/61	590/24/79	1911/36/115	1397/34/116	2184/35/125
SN2B	75/6/46	275/18/81	672/33/116	1175/39/143	1812/38/151	1990/40/169
DFØHQ	54/7/54	346/21/86	587/28/110	614/38/148	3538/40/152	2183/40/180
TM1C	48/8/48	523/20/73	698/27/99	1478/40/138	1846/39/133	1578/38/143

EUROPE MULTI-OPERATOR MULTI-TRANSMITTER

M6T	928/11/70	1768/24/107	1667/33/128	3202/40/172	3320/40/171	3770/40/188
RW2F	946/11/63	1445/24/103	2083/39/141	3008/40/164	2425/39/158	2536/39/178
OT9A	793/8/53	1219/14/74	2079/33/119	2967/40/177	2908/40/156	2556/39/181
OH2U	663/9/63	785/22/83	1304/38/135	3163/40/171	2585/40/158	2098/40/182
GM7V	452/8/53	638/13/80	1473/29/113	3344/40/167	3082/40/162	2323/35/155
HG6N	420/9/61	953/17/85	1112/35/120	2278/39/153	2718/39/143	2520/40/169

Best propagation for years; all the work on the aerials paid off... G3VAO. Very high levels of QRM/sideband splatter from Mid/East European stations that were running excessive power. Pity that most of them are contest groups that would not QSY! 15m was totally wiped out at times. Would suggest a lower power output level for contest groups... *G4WPD*. Just managed to beat last year. An old-timer of 83 years, so my normal target is to beat last year. Had some problems on very loud stations on not tuning to the "beat" and kept getting reports of not being on their freq... *G6QQ*. Wow: 3000-plus QSOs and three-band DXCC using just a small tribander at 30 ft! This is the first time the club station at RSGB Headquarters has put in an entry to CQWW. Operators were G4JVG (formerly P29DX and VK9YG); 2EØAPH, a Novice call belonging to the 16-year-old UK Young Amateur of the Year for 1999–2000; and GØWAT, who could only attend and operate overnight. We hope to be back with more operators next year... GB3RS. Thanks for running the contest. Condx were as good as I have seen in a long time. Only wish I had an antenna on the top of this building instead of on my balcony. Still, we can't have everything!... GM4HQF. Hard work with only 4W but fun. I was pleased to work CN8WW on 4 bands and break the pileup on 40m to work PJ4B... GWØVSW.

My big thanks to my wife for taking care of me during the contest despite being ready to give birth to our first child; and a big thanks also to my son for not spoiling his father's contest efforts by being a gentleman and coming to this world precisely on his due date, 1 Nov. 99, the Monday after the contest. On the radio side of things I really enjoyed 10m during this contest and I thought I had clinched the 10m Asian record, only to find out from the contest score rumors that A61AJ bettered the record by a wider margin than I did. Oh well. I wish for better luck in 10 year's time... H22H (5B4MF). HG5T is the club call of foreign hams in Hungary, issued by HIF (Mr. Regaly). Conditions were great!...*HG5T (N9NC)*. Finally we got a great skip. I never heard 10 meters so full of stations. There wasn't a hole from 28.300–29.000. Too many stations, especially on the western world," do not use the common standard phonetic code, so as a result it is very hard to understand their callsign. See you next year... **IKAQJM.** Fourteen hours active, fine pileup with USA on Sunday first evening more 120 QSOs in one hour...never been for me during a contest!...**IK4ZNH.** Even the *best contest*, good propagation specially on 28...IN3XUG. Beautiful propagation for all bands but spectacular during the second night on low bands with some pileup on 75m...IO2L.

I had a good time. I am looking for the next WW contest...JABQWO. Big opening of

new Cycle 23 made our friendship so big fun. Every high band were busy from end to end. Our approach to WW came to an end. We will try to join to major club in test from 2000 on. Join together!... JA6ZPR. Congrats on all the great scores! I broke the JA record and my last sunspot cycle record just a little, but did not reach a 4M barrier. As always enjoyed the biggest one and will try to do more progressive next year. Keep on challenging and trying to make a better situation... JABRWU. What a nice contest! Because many stations called me... JF2FIU. Antenna height is about 20m from the ground. This contest is first time for me and I was excited. So we will join this contest for next time... JGØGGI. I enjoyed very good condition. I have never heard many Europe station on 10m band...*JG2VSF*. I renewed my own contest record by help of good condition...*JH4ADK*. I was so excited with the great open on 10m band and fully enjoyed the endless pileups from USA and EU... JH4UYB. JJ3ZZE is a club station located on the top of the mountain. Elevation is about 810 meters above sea level. Excellent!... JJ3ZZE (JF3PLF). I tried to join an SSB contest at this time. I usually attend CW contest. I felt regret for less time to attend in despite of a good condition... #03UDL. I learned a bunch of things this time from my long callsign and first entry in WW contest from W7. I felt EU very far from W7 and realized bigness of W... W7/JR1NKN. Excellent condition on high bands. I got a lot of NA's through northeast (EU's) direction on 20m... JR4QZH. The maximum QSO I ever made. I need more multiplier and searching practice...JY9NX (JM1CAX).

Great conditions. Sunday much activity on 10m. Bad day for illegal and CB stations! See you next year, vacation days last three of October. Hi...*L6H (LU6HDV)*. First time

TOP SCORES IN VERY ACTIVE ZONES						
ZONE 3	ZONE 14					
W7GG2,653,855						
W7AT2,351,193						
K6GX2,322,978						
Al6V2,097,846						
K4XU/71,918,728						
KI6T1,115,080						
N6MI957,689						
W8AEF/7853,842						
KM7TM763,074						
W7CB/6756,602						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
ZONE 4	ZONE 15					
VE3OI6,273,328	3 OHØZ6,620,832					
WB9Z5,503,582	2 S5ØA6,504,693					
N2IC/Ø5,074,398	3 4N9BW5,862,172					
W9RE4,811,092	2 S57S5,840,250					
VE3RM4,016,105	5 OH6RX5,365,115					
K4AB3,625,830) *LY6M4,367,360					
VE3AT2,780,085						
WØEJ2,511,059	OH1VR3,327,876					
K9BGL2,390,165	5 *LY2BTA3,238,040					
*VE3PN2,305,394	1 LY3BA3,044,888					
70NF 5	70NF 05					
ZONE 5	ZONE 25					
K1AR						
NT1N6,908,603	3 JH4UYB5,905,708					

K3ZO6,171,165

K4ZW......5,865,053

K3OO......5,699,012

K3CR.....5,181,670

W1WEF5,079,638

W3BGN4,954,633

N8II4,007,880

N2LT.....3,952,148

as All Band; interesting moving multipliers between bands but without good antennas in low bands and with heavy thunderstorm during all the weekend is impossible to make a good score...*L99D (LUTDW)*. It's my first time effort from SA. Many TNX to Espora radio club for giving me an opportunity to use club equipment...*LR6D (JK3GAD)*. We had a great weekend by running this contest. Anyway, we lost a lot of possible QSOs, because our antennas for 40 and 160 were not okay. Also ON stations blocked the 160m with ns he

ZONE LEADERS SINGLE OPERATOR
(Continued on page 114)
of multipliers, runs touching 200 an hour. Half expected to see palm trees and white sar out of the window instead of the rain sodden fields of eastern England <i>M1P</i> . This is th first time we used our new club call in the CQ WW contest. Had great fun especially c 10m, which was excellent during daylight hours. Next year we need to find more ops an
splitting (15 kHz up and down). Impossible to run there in the legal frequencies (for LX that's also a reason for the only few QSOs on 160 <i>LX9SW</i> . Fantastic conditions, tor

	ZONE LEADERS SINGLE OPERATOR							
Zone	CallScore	Zone	CallScore					
1	KL7AC981,843	21	9K2HN9,330,834					
2	VE2AE1,895,703	22	VU2WAP2,071,104					
3	W7GG2,653,855	23	JT1CO4,715,064					
4	VE3OI6,273,328	24	XX9TRR4,415,560					
5	K1AR7,898,499	25	JH5FXP6,195,458					
6	XE2DN1,210,400	26	HSØ/SM3DYU47,854					
7	*3E1DX673,608	27	4F4IX1,506,886					
8	8P1A11,013,948	28	9M8R8,662,544					
9	P4ØE15,583,506	29	*VK8DK53,466					
10	HC8A18,607,050	30	VK5GN3,709,900					
11	ZX5J3,086,148	31	NH7A6,071,934					
12	XR1X1,956,385	32	ZL1ANJ2,146,488					
13	L99D2,224,347	33	EA8BH25,646,796					
14	GIØKOW10,457,664	34	*SU9ZZ4,823,882					
15	OHØZ6,620,832	35	6V6U9,562,950					
16	RM4W5,197,066	36	ZD8Z3,794,280					
17	UA9MA5,692,200	37	5Z4IC829,863					
18	RVØAM1,265,486	38	ZS6SA4,528,840					
19	*RSØF3,393,404	39	*3B8/KD6WW2,534,468					
20	JY9NX7,800,344	40	*OX3CO276					
		*Low F	Power					

JS3CTQ......3,878,138

JA8RWU......3,844,800

JA1ELY.....3,727,365

*JL1ARF3,001,683

JM1XCW2,457,048

JA2BNN......1,703,870

*JH8SLS......1,669,920

JJ1VRO1,305,928

* Low Power

a better antenna system for 40, 80, 160...*M2H*. Wonderful fun and a great way to work new countries. Gales snapped the mast in half Sunday morning but managed to soldier on. Thanks for a great contest!... *MM0BQI*.

Comparing our approx. 4.2 million points to the last year's score, we increased our score by 300%! Our Q's increased by 180%! Adding up 10, 15, and 20m Q's clearly shows that 70% of this year's contacts were made on the high bands, a trend that I am sure will be present in all other logs too. How good actual 10m condx were you can derive from our 10m Q's, which by the way made 35% of our this year's total Q's. To top it off we achieved DXCC on three bands, another first time record for us! To sum it up: Condx were ultra-fine-business—sunspots are back. Our mini-team converted the fine condx into our best score ever!!... OE5T. Great contest. Got really carried away when condx turned out to be so good! Got the stack working just a few hours before the contest started (last-minute as usual) and it seems to have made a difference... OE6Z (OE6MBG). Absolutely great conditions. Having set a 1700 q, 120 c, and 35 z target I got a lot more than that with much more sleep involved!... *OH2RA*. This was the best concert Paksalo Philharmonics (a.k.a. OH2U) has ever held. Huge and active audience made it a thrill our orchestra will remember for long. Not to mention the excellent acoustic environment in our global concert hall. What a blast. And just to emphasize the fact that we take live music seriously we now and then break records. This time it was a 30-year-old piece composed by OH5SM. A song that was just being played for too long. A big "thank you" to all for QSOs. P.S.: Despite the fact that encore was only demanded by ourselves we'll do it!... OH2U.

Conditions were very good on higher bands. The aurora was quite strong during second night. Lower bands suffered quite a lot of this phenomena. My target was to break old OH-record from 1980 (4.6M). I almost reached my target score (5M) and almost number of QSOs (3500). But I failed some multipliers. After contest I felt having made a good job. But compared conditions my target was perhaps too low. Anyway it was great fun and my first CQWW all band operation as single operator... OH5LF. I've never heard so many stations on 10m! Good prop, nice contest! ... OK1KT. This year Murphy was not visiting, he was almost staying with me. During the contest, or before, I have lost the following: (1) My car—broken bottom of the engine and lost all oil, etc., stuck in the remote location of our station after the contest. (2) Power supply for our old amplifier (working without hitch since 1984)—lost it in flames! (3) Control box from the low antenna, rotating by pressing the conductors with screwdriver—trying to repair but... (4) Top antenna—not repaired until 8 hours before end (5) Bottom antenna—not repaired until 4-1/4 hours before end—i.e., end of contest. Concerning all the above I am happy with the result. I believe that even if everything would be okay Will DJ7AA would beat me anyway... OK1RI. Anyone complaining about sunspots should have listened to 10m during this CQ WW SSB test. PSE don't forget the QSL chore guys!... ON4CAS. My very first CQWW DX SOAB. Happy for my result for 34 hrs operation. 10m was fantastic. 160m was too difficult because of the Belgian regulations (20 kHz band with 10W only)... ON4LCE.

Great contest, great condx. Missed zone 26 for a sweep, but wkd zone 1 (KL7Y) thru the US pile. Amazing! ... *ON7NQ*. Great contest! We set up more operator positions so band changes were a lot easier. However, linking the stations in a network was now a problem! Too many operators for a M/S operation, but not enough for M/M so a lot of supporters around all the time! Thanks again for a fantastic weekend! Who else can bring such an event on the air than CQ!...OT9L. Millionaire! The story of PA1TT during the CQ WW SSB contest 1999. Starting this contest I never had the feeling that I would get more than a million points this contest. Like every year the biggest fun would be joining and giving some points away. Since the Netherlands are very crowded, it is guite a problem to gain a house with a large garden, so the lower bands are a problem and 160m is not possible at my house. In order to have some activity on 40m and 80(75)m I made some sloper antennas, which were optimized with an analyzer... PA1TT. Keeping PY2NY (my husband) away from radio during best time on 10m was hard! Would like to listen more YL in contests!... PU2VYT. This contest was big! Too many station in action in same time! I never see it before... PY5TJ. Very best conditions! Many stations from W/VE. My personal record in CQ WW...**FA3DNC.** This is my first CQ WW after 5 years. Many thanks to Karl and his wife Zvonka for hospitality on S52O contest location... S52O (S52RU).

Band was awesome the first afternoon. Had an average rate of 200-plus QSOs over the period of 6 consecutive hours. Not bad for S5 with another 20 or so countryman on the same band... S53R. Great condition this year. I wish I had some monoband antenna for high bands. It was nice to run US in "Caribbean" mode... S57S. Great contest and UFB propagation on 28 MHz, but it was pianful

to be there with only 100W because the band was crowded!... S58J. I'm sorry for very short time operation but it was not a contest expedition since I was in Sevchelles from 21 Oct. 1999 to 04 Nov. 1999 with my wife on honeymoon vacation. Anyway there was also a very peculiar propagation very hard to be heard with only a vertical and 60–80 watts out also with granitic hills toward north, north west. QTH at time of contest was Hotel Coco de Mer, Praslin Is. (AF-024 IOTA ref.), Seychelles... *S79AU*. Being 17 years old, licensed since 1997, it's a really nice experience to work from a station like SK3LH. It was a wonderful contest and in a few years I hope that I will be more experienced and get even higher scores! I sure hope that the CW contest will have the same propagation!... SK3LH (SM3WMV). Yes, we like M/M. We're not aiming at the king's throne. We just like to have as much fun as possible! Fellow hams believe we are crazy going M/M with two ops..hi. Skill and fun: That's ham radio... **SK6D.** My first CQ WW. Great fun!... SP5AWY.

Linear failed 3 hours prior the contest started. Thank you, Mr. Murphy. I usually run 10m HP and at 23:40 UTC I decided to run in SOAB LP category with simple top band antennas. I achieved first goal-1000 QSO and second-1 meg. points. That was my great time. Once again, thank you, Mr. Murphy for the great fun!... SP5DDJ. Congratulations to 9A4KK and 9A99F who also did better than old zone 15 record. At least I have T9 record... T93Y@ T91ENS. We are pleased to achieve this score and we reached over previous best score for TM1C station. The young team is also pleased to reduce the difference between TM2Y and TM1C (TM2Y has only experienced contesters and DXers)... TM1C. Conditions were very nice. 15m band was used from 21.100! up to 21.451+! It was very hard to have good runs in so good conditions and with such an activity. Everyone wants to be on. CQ WW contest is suffering from its success... TM4T (F6HLC). This was my first semi-serious effort from new antenna farm. So it's far away from what I hope to build, enjoyed the contest very much. Local packet cluster failed to work, so used sporadic telnet sessions... UA3AB. Excellent contest, super propagation on 10 meters. Pity I could not work full time because of XYL and family duties. The setup included IC751, homebrew linear—400W and A3S 3-el tribander. The best hour for me was 184 contacts. I hope CW part is going to be as good... UA9CDC.

I'm happy! Very good activity on 10m. Tnx for FB contest... US&U. It was great! Sorry but I can't operate full time of the contest. Thanks to everyone who call me and give some points. Hope to participate in CQ WW CW soon... UU2JZ. Big thanks to contest committee for the contest. In this WW contest took part many young operators of our club station. It is first WW for all. These school boys and girls are very glad and look with big eyes to the worldwide map. All our equipment made in home and always present bad surprise for operators: UW3DI (on electronic valves, made in 1967). I think if we shall have better transceiver (TS-450, for example) then children can be QRV on all bands in all times and grow results in contests. If contest committee or anybody have an old transceiver, Please help school club station, young operators (champions of WW contest in future, with your help)... **UX8IXX** (If you can help, contact <questions@cqww.com>.—ed.). Problems with antennas, 4 square was omnidirectional, condx were poor, worked hardly any Eus the first night. Still had more fun than on 160... VC1A(K3BU@VE1ZZ)). Best conditions on 15m in MANY MANY years. What a hoot!...*VCTA(VETSV)*. Some great runs!! Finally was able to connect with the DX Cluster thru the Telnet...*VE2CSI*.

I was very disappointed in the stations I heard asking people to spot them on DX Clusters. This is against the rules, and the CQ WW Committee should crack down on this nonsense... VE2ZP (It is against the rules of the CQ WW to spot yourself in ANY way—ed.). FUN in a big way! Nice to have HF antennas back up. Will be interesting to see the UBN... VE3PN. Superb conditions and a real thrill to work country #309 (5R8FU) barefoot with a dipole! VE3ZZ. CQ WW DX an event you just can't miss... VE6SV. Ran 100 watts and so the neighbors are still talking to me! I had a great time on 10m. Tremendous band conditions! Thanks to my wife for keeping my 1-1/2year old and 4 year old busy during the contest... **VE7GFS**. Talk about surfing the net...try surfing 10 meters...dead calm one moment, Bonzia Pipeline the next...VK4ICU. What fantastic conditions. My goals were to beat my previous best of 3.4M in 1982 and try to get over 4M! 3.99 doesn't count. I'll have to try harder next year. Hi... VK5GN. First time contesting and a great experience! Thanks to CQ for having this kind of event ... XE2Q. This is our first DX international event (multi-multi) with many new members (newbies). Surely will be back next year!... YBØZDC. I "hit and bounced" for few hours only, but enjoyed giving points to the others... YO9HP. I enjoy the contest but in the night the mosquitoes pileup enjoy me... YV5IVB.

I am extremely pleased to have carried out my first

I am extremely pleased to have carried out my first contest after several years as amateur radio operator, and

I would like to thank YV5LIX for motivating me to participate, even though he knew how difficult it was going to be due to my working conditions, a CB radio that I modified to work on 28 MHz at 5 W, and my less than optimal antenna system. Also I would like to thank all the hams around the world that with great patience and sportsmanship made the effort to listen to my QRP signal...YV5LVT. I operated from the QTH of YV5LIX, Jose; and I would like to thank him for lending me his fine contest station. This is my first contest and I am looking forward for the next year one...YV5OHW. Long time didn't hear so big activity on 10m. Very good condition without QRM in the mountain as I have at the home. I like to apologize to many hams who asked me to move on other bands, which was impossible because I have antenna only for 10m...Z31JA.

USA QRM

It was nice to work some DX on some of the lower bands, 80 meters. Had a lot of fun and look forward to doing it again next year. I finally put up my ARRL map of the world during this contest, so I got to see where some of the rare DX was really operating from... AA1SU. It was a lot of fun, but I just *have* to get the tribander back up in the air!... **AA2AD.** This is only our third contest. Our goal will be 2.5-3 million. We worked so hard to get ready for the contest that we both crashed and burned the second night. We completed remodeling the office/radio room just before the contest. We also worked hard to get new 40m and 80m antennas up for this year. Conditions were a lot different this year such that 40/80 were not as important as last year. The 40m wire beam was very effective. Broke lots of pileups with the C31-XR. Super antenna. Unfortunately, we only have one. We feed it with three separate feed lines so the run station and the multiplier station can share it. We haven't really got that working well just yet. All in all, a blast... AE2F. Finally moved up to a real computer. TR makes it too easy! Thanks for a great contest... AI2C/4. Only a part-time effort but still had fun. Great conditions. How do you guys do tha??... KØEJ. Band conditions made this one of the most fun contests in a long time... KØGQ.

Who says ham radio and contesting are dying? Only open spot on 10 was 29.010 Sunday AM!... KØLIR. Working ZXØF on all bands especially on 160 where I had only six stations worked. Worked (finally) VK9LX at 2359Z Sunday for my last contact and multiplier. Turned on the radio Sunday morning after 3 hours sleep and discovered that I could not change bands with the homebrew interface I was using so I stayed on 20 until I decided to get the CT manual out to see if I could solve the problem. Blamed it on the change to EST by the computer (Hi Hi). Lesson learned: If all else fails read the "blankety blank" manual first. This is only the second time working a contest and getting a little better at it and liking it more. Having an understanding wife, who is also a ham, helps considerably... K1BD. Since joining the fun in CQ WW SSB in 1996, I have doubled my score every year. I think it will start to get harder now to keep doing that. This year was fabulous... K1TW. Nice to have 10m open once again. There was even activity above 29.100! 15m was wall-towall with stations... K3IXD. Murphy struck as usual: Rotator on quad froze Saturday evening, and other commitments slowed down things on Sunday. Nice to see the great conditions on 10m...K4LQ. Very good conditions on 10 and 15m. 10m was full of contest stations from 28.3 to 29 MHz... K4LTA. Great contest. Four of our five operators were licensed together as Novices in 1969. This was our first time to finally get to operate together as a team. Two of the operators had not seen each other for 30 years! What a thrill to team up again during a contest with great propagation. Thanks for all the QSOs... K5MR & crew.

Very hard to leave 100+ per hour runs to search for mults... K5RX. Over 600 kHz of wall-to-wall RF on 10m. It's been a long time since I've heard that much SSB operation above 29 MHz... **K5VG.** Wow! As N5KO says, "There's no meters like 10 meters!" I installed a new Tri-Ex 54 foot crankup this summer. I had no idea how much better it would be than my old 30-footer! (You mean my new tower wasn't 100 percent responsible for the improved conditions?!) I was unable to establish any sort of a run on any band, but I was very effective at S&P, so that's what I did. 40m was very tough, and I couldn't hear anything on 80. I know what my next antenna project will be-80! The good news is that once again, nothing broke!... K6GT. Biggest thrill: working A61AJ at 0300Z. Fairly good conditions but from the NW one wouldn't know it... KTQQ. This contest was a lot of fun. The first CQ WW for my friend, N6ENU, who was celebrating his new KT34XA. We can conclusively say that it works now, although the rotor may be a little tired!... K7ZL. My first CQ WW. Never knew there were so many countries out there. Had a blast. Will be back next year for sure!... KBØWHY. Breaking a pileup to contact South Africa late on the second day! Also, the great presence of so many DX countries!...

KCØFUD. Incredible condx on 15 and 10m! It's a lot of fun having a great team assembled for the CQ WW contests...KC1XX.

Extremely dry WX condx meant a high QRN level on 15m. It never dropped below S5 on my meter. How much more fun I would have had with a low noise level! Great openings into EU but never could get a JA run going... KC6X. 42 Zones, 54 DXCC entities, 123 contacts with 100W into a dipole. The bands were good. Also worked on WAS contacts... *KC7WUE*. Surpassed my personal goals for the contest and had fun in the process. Was pleased with the conditions on 40. Howeve, the JA's seemed to be weaker this year. I wish that the EU's would listen up more often into the US band... KD4RH. Can it get much better?! All contacts made in S&P mode... KF8K. Our operating team keeps getting better. Very ple with our improvements over last year's efforts...KG6OK.
Only casual entry. Mostly looking for new countries, of which I found about 10. Spent Sunday morning putting up a TA-33 Jr tribander. Beats the pants off my G5RV dipole at the same height, especially on 10m! Thanks to all who put up with my weak signals... KIBLO. My 45 ft. vertical ant. fell down in a storm about 0400 of the first day-bummer. My wife and I got it back up about 15 hours later. I still managed to get 16 zones!... KI5YP. 10m was awe-some! How long has it been since one had to look above 29 MHz for a clear spot to call CQ?...KKØSS.

Very close race here on 10m in North America. Got the antennas up with just a couple hours before the start. Good to get KP2A back on the air again... KP2A (KW8N). Needed more rest before the contest; low band mults suffered as I slept. Many things left to learn and improve but overall a very satisfying experience. Thanks to N4AF for the use of a fine station... KS4XG@N4AF. My first phone contest and I loved every minute of it. I will be in a lot more contests from now on. Turned out 10m was the place to be. I should have stayed there longer. It was open to the world...KW4DA. Great contest!! Really enjoy the new (shorter) callsign. I was very excited to hit the 100 country mark for the first time. Thanks DX ops... NBRA. My 2W on 10m to the HB x-beam was enough to have loads of fun. I do not usually run SSB but this was a blast... N2VPK. My best rate was CQing on 28.992!... N4GN. I don't think I have ever heard 15m in better shape than it was on Sunday. During the 23 hr in the final minutes of the test you could hear the world!... N4MO. Great conditions. Next vear will have another operator, or two, and improve the LF antennas, especially the 80m 4-square which did not perform as well as it did last year... N4TO. Ten being wide open to Europe and JA sure makes it more fun for a "little pistol" like me! 98% of QSOs were S&P. Almost swallowed the mic when 5X1T answered one of my rare CQs!...N5AW.

Thanks to all the stations who worked us in the contest. We really had a ball. Conditions were great most of the weekend. The three tribander stack was great for mults!... N5YA. In memory of Bill Adams, W6BA, who became a Silent Key one hour before the contest started... N6AW@W6KP. What a trip! Comments from: R1MVZ "QRP is not allowed in this contest! 3V8BB - "You're actually moving my S-meter!" CN8WW – "Great signal for QRP; S8 on the meter!" Jim (N6IG) at PJ4B said, "You must be a masochist!" Whatever! I can't wait 'til the CW portion! The good news is that the pace was slow enough that I filled out all my QSL cards between contacts!... N6ZS (QRP). No equipment failures! But we blew the primary-side fuse for the power transformer on the power pole outside the house! Off the air for about an hour on Saturday afternoon while the electric co-op replaced it. Ten meter condx will be remembered a long time... N8NR. More than doubled my previous high number of contacts (all S&P). Had so much fun, decided to submit my log (first time)... **N9QQK.** While my score will not impress the "big guys", it is a personal best for me and the first time I have achieved the million point level. Ten meters was awesome, and it was also my first time working over 100 countries on a single band. About 99% was search and pounce. Above all, it was great fun!...NT4D.

Great band conditions. We were a limited multi-multi using mainly three stations most of the time with a fourth available for 40m. A thunderstorm took us off the air for a while on Saturday. We also had an electrical problem which knocked power out twice. Best food of the weekend was the BBQ ribs prepared by N5XJ...NX5M. Unbelievable propo on all bands...reminiscent of late '70's. Noisy Friday night with thunderstorm moving through hurt on 40 and 80 but can't complain 160m antenna evolved into great dummy load hrs into contest. Enjoyed the courtesy and fun everyone seemed to be enjoying. Worked into a personal best!... NY5B. When EA8BH answered my CQ on 160, he was so loud I swore he was a bootlegger. Do only crazy people like me do a single band 160 effort in this one?... WØETC. Ten meters was fantastic! The entire phone segment of the band was covered with contesters. Had to go above 29.0 MHz to find a clear spot... W4JH.

Lots of fun. Great conditions. After winning the USA M/S category in the ARRL DX Phone contest this year. we decided to try our first M/S in the CQ WW. It was definitely a learning experience: (1) The first lesson learned was that you need a lot more operators to do this category seriously. We had only one full-time op (KI7WX wins the Iron Man award) and three part timers. (2) Lesson two was that four guys connected to a local Packetcluster doesn't cut it! Why do the packet links always go down when you need them the most? (3) You must link both stations' computers together, and this always takes n+1 COM ports, where n = the number of COM ports your computer has installed. We got in 41 hours, and were actually sorry to see it end, unlike a lot of recent low rate marathons. Nothing blew up and fun was had by all, so I guess it was a success... W4MR. The European QRM was so bad that I had to use the "search and pounce" method all weekend because I could not find a clear frequency!... WARRA. Nothing above 40'! We beat our W4NC score from last year by 1 M Pts! Finally, had solid runs on 10 and 15. 10 was amazing. Its operators are skilled folks and not always lots of money dumped into hardware. Congrats to W2A and nice to see W4MR jump in. Tks for the post contest cookout by my XYL, Julie... W4WS@N4VHK.

This was a fun contest. I worked some all-time new countries. The best part of the contest was working the station with the coolest call in the world, DX1DX!. W5CTV. Had a good time and beat last year's score. What more can you ask for? Maybe a couple of new countries next time! Thanks to all the stations that stuck with me to complete the contact. I'm antenna challenged with my multi-wire dipole hidden up on the condo roof. Most of the signal goes into the roof. It's still better than loading up the flashing on the peak of the roof. That was too scary with wood shake shingles... W6SA. This was the year to see records broken on 10m. It was pure delight to hear so many parts of the world, even though nothing was heard zones 17, 22, and 34. My rotator quit the last 1.5 hours of the contest; fortunately the antenna was pointed toward JA... **W6YA.** Great contest! Great conditions! I purchased the Force 12 C4S in June and finally erected it the day before CQ WW. Wow! wWhat a difference a Yagi makes. DX actually returned my calls! I doubled last year's score! My highlight was breaking a pileup on HZ1AB with 40 minutes left in the contest and watching CT roll up my score (new country and new zone). It's more fun than a pin-ball machine... **W8VE.** Couldn't generate any significant runs on 20m, but I worked a lot of countries and zones that I've never worked in this contest before. I thought I had a chance to work 39 zones (34 doesn't exist from my point of view), but could never find zones 23 and 24 on 20m... WA7BNM/6. Quiet bands and good propagation helped me snag my first China contest QSO!. WS1A. Started this year's contest with the modest goal of making more than last year's 68 QSOs. Wound up with 306 and score close to 200,000; great conditions on all bands... WT2JG.

Station Operators Multi-Op Single Transmitter

4K7Z: 4K5CW, 4J9RI, 4K5D. 4T4WW: OA4AHW, OA4BHY, OA4CVT, OA4DJW, DL6NBC. 4U1VIC: JH4RHF, OH2TA, DF6VP, DL1EFD, DL2MEH, DL2OBF, DL3KDV, DL4OCL, DL6BCF, DL9YAJ. 5H3US: K8LEE, WD8SDL, K8MN. **5R8FU &** SMØDJZ. **6D2X**: K5TSQ, K5TR N5KO. N5TR. W5VX. XE2XDX. XE2YNE. XE2YNS. 7AØK: YBØAI YBØAZ, YBØDX, YBØHD, YBØNU, YBØAVK, YBØCBI, YBØECT, YBØFMT, YBØLUC, YCØLBK, YCØLDA, YCØONE, YCØYAD, YDØFIM. 8S2F: SM2ODB, SM2HWG, SM2LIY, SM2NOG. 9A1CMS: 9A5TR, 9A5AVW, 9A5AHD, DAMJAN. 9A10: 9A2OM, 9A2TN, 9A3IQ. 9A4U: 9A2AJ, 9A4MF. **9A7A**: 9A7V, 9A8A, 9A3TR, 9A4PA, 9A4RX, 9A6DM. **AA10N &** W1RH. **AA5NT &** N5TVL, WJ1U, NOØT, AD4PU, KE4RHU, KC5LBE, W5GN, WD5FLK, N5NJ. AB7RW & KC7KQ. AD4ES & K9ES AE2F & WR2I. AH2R: JG3RPL/N1BJ, JR3RVO/WX8M, JI3ERV/NH2C AEZF & WRZI. ARIZH: JG3RPL/M18J, JR3RV/O/WX8M, JJ3ERV/M12C, KH2/JR8VSE, KH2/JR8PPG, JR7OMD/W13O. B4R: BA4RC, BA4RC CE3TQU, CE3WDV, CE3EDW, CE3HFD, CE3JSX, CE3WE, CE3LCF, CE3CF, CE3CB, CE3OMN. CE4TA: Club. CQ9K: CT3BD, CT3BM, CT3BM, CT3CD, CT3DL, CT3HF, CT3IA, CT3KN, CT3KN, CT3KIX. CSTA: CT1DXQ, CT1FAC, CT2FUN, CT2FVL, CT2GDF, CT5GOJ. CS9Z: CT3CK, CT3EX, CT3FJ, CT3FQ, CT3FV, CT3KY. CT1EGF & Others.

DF9MG: D11AUZ, DL2SAX, DL3DXX, DL3TD, DL4ALB, DL5ANT, DL5YY, DL7VOA. DF3CB & DL3LBA, DL7AOS. DHØDX: DF8AE, DK5QN, DL1YAW. DHTTW & DHTSGS. DL2000: DHGWS, DH5DP, DL5WJ, DH5DP, DL5WJ, DL5MP, DL5

DH2CHD. **DKØMM**: Club. **DLØBKR**: DK1WV, DH2PK, DL5WJ, DJ1ER, DJ3PY, DL6EN, DK9WQ. **DLØGL:** DL3QQ, DL2VB, DL6YFB, DF8QJ, DL1YTM, DJØRU. **DLØHNF:** DL2YEY, DL6QN. **DL6PK &** DH8PK, DJ1YH, DK5WQ, DL3SR, DL8WO. **DL8EAD &** DL9LR, DL6CA. DN1MA: Marcus, Robert. DX1DX: DU1SAN, DU1TW, DU1AHS, DU1IHU. DX1RN: DU1LER, DU1PBM, DU1TLD, DU1OPV, DY1MDU, DYTPMK, DYTGSK, DYTZXW, DYTRPS, DYTHJJ, EA1COZ & EATEAG, EA1AS. EA1EEY & EA1DZW, EA1CS, EA1CUB, EA1BXW, EA1BVP. EA1RCT: EA1DLD, EA1APM, EA1AUN. EA1URO: Club. EA2AAE & EA2AWF, EA3BO, EC2AEU. EA3AR & EA3BHB. EA3RKG: EA3BOW,



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National Radio Esaminers - Dictrion Computer P.C. 56 (565206) Jules 18 (6545 Weatherfold to a DecemEA3BOX, EA3DGO, EA3EIO. EA4RKU: RCUA Contest Group. EA4ST & EA4ARI. EA5AFH & EA5FFC, EA5GMO, EA5ZI. EA5FKX: Others. EA5RKI: EA5AND, EA5GCT. EA5BRP: EA5ON, EA5CLH, EA5DFV, EC5CPL. EA8URI: EA8BIK, EA8BVH, EA8DP, EC8APU, EA8DKX, EA8AKN, EA8NL, EC8ABT, EA8RA, EA8AGE, EA8AVR, EA8RKO, EA1BE. ED161: EA1AGP, EA1BFZ, EA1FEL, EC1DMF, ED161: B: C1ANC, EA1AAW, EA1BAW. ED2RCA: EA2CBY, EA2ARW, EC2AFA, EA1OZ. ED2WW: EA2AZ, EA2MO, EA2SG, EA2CND, EA2CGG, EA3GIP. ED5WEB: EA5WI, EA5DYY, EA5ASF. EM4E: UR3EZ, UR5ECW, URSECDX, UR5EFJ, US5E-699. EN5J: UU1AJDX, UUJJDX, UUJJDX. ES2X: ES2FJ, ES2OH, ES2FM, ES1TMY, ES1TFT, ES2NA. ES5G: ESSMC, ES5RMC, ES5CA, ES5CX, ES5RN, ES5RW, ES5RY, ES5RY, ESSRY, E

FSKDC: F6BIF, F8FCP, F5IXG, F5OKD, F5RVV. F5KEM: F6JSZ, F5ICC, F-16353 + SWL Staphane. F6KDF: F5NOD, F5PXT, F5SIH, F6JUX, F5PVJ. F6KHK: F5USK, F5LTT. F6HIZ, F5IUU, F5REH. FMSBH & FM5DN, FM5DS, FM5FJ, FM5GU. F5/K7ZUM & K07BSW, KC7TWZ. G9FYD: M0COK, M0COP. G9RAF: G3VAC, M0CES. G1Y: M0AVG, G4VCS, M0COS./M0KV, MWAQ0II. G3B: G4LOO, M1ACI, G40XD, G30LY, G8ATD, G0BVW, G4YRF, M0BIK, G4YRS, G1GSN, G4VXT, M0AJF, G8BEG, M0CKA. G4WAC: M0COK, G7HOC. G83RS: G4JVG, G30LY, G8ATD, G0BVW, G4YRF, M0BIK, G4YRS, G1GSN, G4VXT, M0AJF, G8BEG, M0CKA. G4WAC: M0COK, G7HOC. G83RS: G4JVG, H89ALD, H89CK, H89CK, H89FBH, H89FAP, H89CAT, H89CXZ, H89FBC, H89DIC, H89FBH, H89FAP, H89CAT, H89CXZ, H89FBC, H89DOS, H89FC, H89FBH, H89FBH, H89ALD, H89ALD, H89FBH, H89ALD, H89FBH, H89DHG, H89FB, H89BYT, H89BYU, H89FBH, H89FBH, H89DHG, H89FBO, H89GN, H89FY, H89BYD, H89FBH, H89FBH, H89ALD, H89FBC, H89DOS, H89FC, H59EX, H19/NSYY, WOLLD, H11-LIV, H71-LIV, H71-LIV,

INGZYJ. JSJ. J68WX.W4WX, J68WBN.N2WB, J68AZ.W9AAZ. JAYYFG:
J01BRW, 7MADPF. JA3YPL/2: JA3ESQ. JJ3TBB.
JA6ZLI: JG6POJ. J16XJG, J06JRP, JJ6WYS. JA7YAA: Takeuchi,
Nakagawa, 7M1JAS, JM1QPR, JG7PSJ, JH6NZN, JH6/DRW, JE7HLZ.
JA8YBY: LZ2SAF, 7K2CWQ. JA9YBA: H. Nada, JH9ONJ, JF0EGG,
Nsugimoto, JE4VWM & JG6LVL, JNJEFUJ. JE6ZHI. JR6GKT, JF6DEA,
J16BRB. JF6ZPH: JG6KZH, JH6OIL, JK6SEW, JM6CIP, JP6EGZ.
JH7PKU & JA9SSY, JF2IWL, J01BMV, JRSKDR. JIZZEY: JA2BY,
JA2BIV, JA2BIL, JM2CCL, J02BBC. JIZZJS: JA2XAB, JA2JSF,
JA2XCR, JE2HCJ, JG2TSL, JH2MYN, JH2UVL, JR2XOM, JM2RUV.
JJ3YBB: JA3PJL, JA3FHL, JJ3FQF, JA3OOK, JF3MOK, JF3RLG,
X9KZY, JM1ZTT: JJJSDF, JA7FYF. JM5E: JMSDM, LA7FD, LA7DLA
KØGQ: KØOU, KBØRTH. KØLIR: KI9A, KIØMB. K1GW & KB1T. K1NU
& K1OA. K1YR & K1RU. K12O. & NIKWF, WA1ZYX, WKB1T. KYNA
K6NGK, K2DK, K2SB & W2OF. K2UA & N2MG, K2AXX, KB2VGH. K2XR &
AB2BK, K2QWR, N2YFH, VE3XAP, K3BSA: K3JLK, W83BSA. K3DI &
W3ICM. K4HA & NX9T. K4ISV & K4CMS, K4UVH, K4CM, NN4T, K4CN.
K6NG, WA6O. K7ZL & N6ENU. K8AZ & K8NZ, W8BIN, W8KIC,
K6WG, WA6O. K7ZL & N6ENU. K8AZ & K8NZ, W8BIN, W8KIC,
W8WWW, WB8K, WT3C, W1MD. K8CC & K8GT, N8VW, W8MJ, WD8S.
K9IU: N9NI, KA9OKT, N2VOD. K9NR: Others. KC9CWU & K10MI,
KC9CZG, KCOCZH, K60MR. KC7V & AA7A, KN7V, K7XP,
KBSQ & KA8YNW, KC8MRP. KD9ST & KA9SOR, KA9SOS, K89EXE.
KE2HG & N3ODC, K82DDM. KG4CM: N1VON, KG4AU/WV3N. K66OS&
KCØDQ, NØNB. KK5CA & KD5GUY. K17Y & WA2GO, WL7E, KL9A,
KL14RG & KF4OKG.

LASW: LA4DCA, LA5KO, LA8SDA, LA9EEA, LA9HW, LA9SEA.
LT5Y: LU1YAG, LU1YU, LU2YAX. LU1NF: LU1NDC, LU8NA, LU1NAF.
LU7NN, LU4MAZ, Otto, Tom. LX2LX & LX1NO. LV9SW: Others.
LY20M & LY2BUU. LY2ZZ: LY3MM, LY3BY, LY2PAJ. LY3MR:
LY2BIL, LY2BKF, LY3NFW. LZ2K: LZ2JE, LZ2MP, LZ2NP, LZ2NP,
LZ2YO, LZ4AE, LZ4UG. M1P: G3GAF, G3UHU, G4FWA, G4TNB. M2G:
GØUZF, GØUCS, GØLRE, G1AHM, GØWTD, G4TZR, G3ZRE. M2H:
G3MXH, GØREP, MØAIZ. M4T: GØVQR, GØLHZ, G4ELY, GØOPB,
M0GRK, 2U1EJF, G7UET, G7WGE. M5W: G7UGG, G8WJY, MØCOP.
MUØBKA: K4ZLE/MUØBKA, 584WN/GØWWW, G4ZFE. NØJJ &
AAØBY, AF9T, WJØM, WØTVD. N1AO & KT1O, W1SDR. N1AU &
KVC1D. N1LN/5 & K7LEX, K5UO, WDØBCE, WA5MLT. N1WK &
N1RSX. N2LBR & WA1KKM. N2NU & K2WI, AA5B, W2REH, WW2Y,
N3RU. N2SS & N2MT. NATO & K1TO, K1KNO. N5KB & KK7JS. NYAVS
& K8IT, N5KR, N5JB, N5WD, NNST, K5WO, W5KNE, KM5UB, WB5TVI,
W5IUA, KBSSSV. N8NR & N8BJQ, N9AG, NR8Z, WB9GF. NS3F &
K3ATO, KS3F, NT3V. NK1K1/9 & KX9X, N09Z. NK7U & K7ZO, KK7A,
W7ZRC, K7MK, WS71, N7BZ. NP2B & W4OV, KU4GY, WD4JNS.
DE1W: OE1AKB, OE1JJB, OE1SHS, OE1TOS, OE1WIU, OE3KCD,
OE4JHW, OE4MXB. DE5T: OE5OHO, OE3GEA, OE5MKM, OESKU,
OE4JHW, OF4MXB. DE5T: OE5OHO, OE3GEA, OE5MKM, OESKU,
OE3MR, OH3WW. OH6KSR & ex-ONGNU. OH7M: OH4KBC, OH4XX,
OH6LNI, OH7KIR, OH7KIR, OH7MHL, OH7MS. OH1KIR: OK1AW,
OK1FED, OK1IMC, OK11PN, OK1PG. DK5W: OK1AEZ, OK16F, OK1WF,
OK1FEO, OK1MC, OK11PN, OK1PG. DK5W: OK1AEZ, OK16F, OK1WF,
OK1FEO, OK1MC, OM3RA: OM3DX, OM3GGN, OM3AM, OM3AU,
OM8AM, OM8DM, OMØWR. DM5M: OM1KM, OM2KI,
OM5BM, OM5ZW. OM3RA: OM3RA. OM7M. OM3PA, OM5M,
OM5M, OM5WN, OM3RA: OM7M. OM6DP & ON4KGP, ON4KFB,
ON5PO, ON7RN, ON1LMR, ON1MFA, ON1MFC.

ONSPO, ON7RN, ON1MR, ON1MFA, ON1MFC.

OR5EU: DF3TJ, ON5GA. OT9C: ON4ACA, ON4AJZ, ON4ALT, ON4AMI, ON6MR, ON7UN, Dirk. OT9K: ON4ON, ON4BCJ, ON4CBV,

ONGCX, ONGHH, ON1DI, ON9CCB, ONL-3908, ONL-4531. OT9L: ONAGEK, ON4AHF, ON4AKL, ONAATW, ON4BR, ON4CAF, ON4CEP, ONACCEP, ONACCEP, ONACCEP, ONACCEP, ONACEP, ONAEP, ONAEP,

SSINM & S52OP, S52SK, S57XZ, S51MA, S53DS. S59SLO:
S51PP, S57ODX. SK3W: LY2IJ, SM3EVR, SM5IMO, SM0OEK,
SM0RUX. SK7AX: SM7HCW, SM7TOG, SM7TZK, SL7BZ: SM7TUG,
SM7TKL, SM7VHS. SN0KAO: SP9LAS, SQ9FCH, SQ9FCO. SN2B:
SOØWDX, SP2FAX, SP2JKC, SP2WKB, SP5DRH, SP9RX/ DJ0F.
SN6U: SP6NVK, SP6OPE. SP3KPN: SP3SFN, SQ3EPX, SQ3GOU.
SP9KDU: SP9AVZ, SQ9DXO, SQ9FMU. SP9KGG: SP9IKN, SQ9DDH.
SP9KUI: SP9MVY, SP67510. SP9PRO: SP9JJJ, SP9PT, SP9QMP,
SP9QZT, SP9-3021. SV1AFA: SV1CIB, SV1CDN, SV1DPJ, SV1DPJ,
SV1DPX, SV1CID, SV1DPL, SV1ETM, SV1ETM, SV1SN, SV1UK,
SV1CIF, SV1DPF, SV1ETK, SV1CQR, SV1CIE, SV1ETL, SV1DPP,
SV1CQK, SV1CQY, SV1DHU. T88WX: JA1WSX, JA7AYE, JH4OWG.
T91CMN: T94NR, T95MEH, T95MEQ, T95DXT. TA2KB: TA2DS,
TA2YA, TA2BB, TA2BY, TA2NC, TA2ND, TA2CPC, TF3IRA: TF3AQ,
TF3GB, TF3HP, TF3MLT, TF3RJT, TF3WOT, TF3VGT. TISEBU: TISKD,
JA6WFM, JMGEBU, JM6UAA. TMTT: F6CQU, F8PN, F6HKA, F5PSA,
F6CH, F5PHV, F1MCO, F5NSK, F1OKU, F1EZC. TM10: F5ITK, F5LND,
F5NGA, F5PSG, F6CTT, F8AKS. TM1V: F81BON, F5TRO, F5SVO,
F6CCH, F4BHZ, F4CIY, TM1W: Club. TM2Y; F6BEE, F6ARC, F6FGZ,
F6FVY, F5NLY, F5SNJ, F5VCO. TM5KP: Pigouche, Baude. TM5LO:
F8CMZ, F8BXI, F5CCX. TM9A: F5RXL, F5CZF, F6EXV, F5SSG, F2VX.
TM8F: F6BNH, F6BPG, F6CMF, F6FNL, F9LMA, F4BGO, F4CFR,
F1ADG, F5DJL, F5BPQ. UA7A: RU9AN, RU9AZ, RW9MG, RZ9AZ,
UA9AJ, UA9AR, UA9AB, UNALL. UNSG: UA3AWG, W03AHI. UPGI.
UNGWU, UN7LAN, UN9LO. URAMWU: UROMM, URAMEU, URAMT.
US8U: UT5UUF, UT5UDG, UT5UPN, US-U-094. UT3IZZ: US3IRX,
US3IVN, US-1-375. UT4UW: Club. UT172: UR5ZMH, UR7GG, UR7ZZ,
UT4ZO, UYØZG. UU71: UU44MG, UU8JK, UU4JDD, UU0JMM,
UU0JX, ANDY STRAKHOV. UX8IXX: UX8IX, US8IBS, US8ICA, US-1696. Lina. Serrey. Van. Alex. Wasixi. Nasv.

UIDJZ, U14ZO, UYDZG. UUTJ.: UU4JMG, UU8JK, UU4JDD, UUDJM, UUDJX, NDY STRAKHOV. UXBIXY.: UXBIX, USBISS, USBICA, US-1-696, Lina, Sergey, Ivan, Alex, Wasily, Nasty.

YAJAY. Y73AY, Y73AY, Y73AY, Y73BN, Y73CW, Y73TV, V73UX, V73ZZ.

VAZRHJ: VE3RHJ, VA3RHJ, VA3SK & VE3ZN, VA3MW, VA3PC, VA3DAK, VE2CMIH: VE2TPE, VE2FAL, VE2KV, VA2MP. VE2CO: VE2NZR, VE2GOB, VE3KDC, VE2KG, VE2SVP, VE2TDX, VE2FTR, VE2MIG, VA2DAX. VE2CSI: K1EU, K1JB, K1MV. VE3DC: VE3SS, VE3BK, VE3OCY, VE3VMO, VE3AHO, VE3OZO, VE3OZD, VE3FBD.

VESEL & VA3UZ, VE3XV, VE7ZO. VE3HG & VA3GGF, VE3HKC. VESCMA, VESFD, VE5FF, VE5FN, VE5FR, VE5GG, VE5ZG, VE5SJA. VE5RI: VE5CMA, VESFD, VE5FF, VE5FN, VE5WI, VE6BBP, VE6EZ, VE6FW VE6REZ, VE6BUS, VEGWAMA, VEGSY & VE6AWY, VEBAMA SEGEN, VEGWAMA, VESSY & VE6KW, VESWI, VEGFPK, VEGMIT, VEGNAP, VE6VW, VETNS, VO1CV. VK4IU & VK4MZ. VK4UC & VK4BMM. VK6AND: VK6AND: VK6AND. VK7SIN, VLSPIN, VLSPIN, VLSPIN, VLSPIN, VLSPIN, VENDIN, VENDIN,

NAKE, K4EB, NU4Y. VP5H: NDA1, NDKK, NSUU, WOWW. VU2PAI & VU3DMP. WIBK & WINR. WICC & NIBSO.

W2A: W2XX, N2TX, KE2TR, N2DVQ, KD2TT, AA2MF. W2CG & W2NO, K2WJ. W2GSB: N2UHR, KC2FBV. W2LC & K1PY. W2RD & N2VM. W2UP/3 & KG3NE. W3DXR: K3UOC, K3USC, Molly the Pumpkin. W3MF & K3PH. W4CAT: W3WI, W4KH, K4BEV, K1KY, N4POV. K06ID, KD4VVA, KF4PPA, KF4DAH, KE4JUH, K0EDG, W4MR: AA4NC, K17WX, N4CW, K4MA. W4PRO & K04MR. W4WS: N4PVHK, N0KTY, WA4IAM, W84MSG, WB4KON, KD4RGB, KT4KV, K4HO, KC4WSK, K4BLR. W5YM: K5BWPM, KB5ZYC, KC5LO, KD5GNB, AH2AK, N5DX, ACSRR. W6EEN & K6XC, K6LA, W6ORD. W6KNS, W6LD, N7MH. W7IG & KA7AGH, W7BJB, N7HA, N7LF, KC7Q, W7SIR, N7TL. W7JC: N7TH, KC7GBO, W6OJI. W7PXL: Club. W9UR & K4WW, K4YAT, KD4ULW. WA1RR: KB1LN, KA1VMG, N1HRA. WBZKHO & KB2NOW. WU3M & N3MK2. XE1X: XE1NVX, XE1D, XE1AE. XE2/N7RK & N7IX, N7MB, NE9Z, NA7DB. YLUY, YLZY, L3DW. YM2EJG: W5GCX, K5LBU, Y09KPD: Y09GUX, Y09JIM, Y93A: Y03ND, Y03GJC, Y03FWC. YU7AJM: Stan, Ivan, Y7TXT, YUZYZ, 4W7TA, 4M7NN, YZ7A: YUZKC, 4NZCC, Fero, Lacy, Tibi, Zolat, Ace, Pete, Y29M: YUZKW, YUZNU, ZC4CM. Z16OH: ZC4CM, ZL2BMJ, ZL1ZXG. ZV5V: P5V8, P5V8L.

Station Operators Multi-Op Multi-Transmitter

AB2DE: N2KPB, KB2YJT, KC2DZY, N2ZAS, KC2AVE, KB2IZB, KC2DLD. B1Z: BA1DU, BA1GYS, BA1HAM, BA1KA, BA1MK, BA1MT, BA1TU, BIOC, BD1CU. CR8WW. D1SIW, DK2OY, DK5WL, DK6WL, DK7YY, DL1MFL, DL2NBU, DL4MCF, DL6FBL, DL6RAI, DL8OH,

DL8WPX, DL9NEI, OE2LCM, OE2MON, OE2VEL. CV1T: CX2TG, CX2TL, CX1TM, CX2TG, CX7TK, CX5TC, CX3TI, CX1TM, CX2TG, CX7TK, CX5TC, CX3TI, CX1TM, CX2TG, CX7TK, CX5TV, CX3TI, CX1TM, CX2TG, CX3TG, CX1VF, DX1DBT: DU1MHX, DU1JXP, DU1RYN, DU1RYJ, DU1RYJ, DU1RYJ, DU1RYK, DU1RYL, Arem, Chrisitian, Carlo, Sean, Cholo, Joel, Dervin, Opel, Biboy, Paolo, Angelo, JC, Ton. EA4ML: EA2TV, EA4CT, EA4ET, EA4TX, EA5EM, EA5W, EA5XX, EA7JB, EA4KA, EB4EPJ, EB4AKI. EA9EA: EA1AK, EA2CLU, EA4KD, EA4KK, EA4KR, EA7GTF, EA7KW, EA7TL, EA9AI, EA9AS, EA9AI, EA9AZ, EA9KB, ED7VE: EA7HY, EA7ATX, EA7CA, EA7TL, EA7CD, EA7CN, EA7CO, EA7CO, EA7GNC, EA7CCN. GM7V: GM3WOJ, GM4YXI, GMØNAI, GMØGAV, GWØGEI. HBØ/DK7ZL & DF7EME, DL2FP, DH1MFF, DL1TS, DF72S, HBØ/HB9AON: DF1JO, DF5UL, DJ2YE (HB9AON), DL8DAW, DL8DAW, DL8DAW, HA6NH, HA6NH, HA6NH, HA6NY, HA6DX, YOSBRZ. IG9A: HA4OH, HA6NH, HA6NH, HA6NY, HA6DX, YOSBRZ. IG9A: HA4OH, HA6NH, HA6NH, HA6NY, HA6DX, YOSBRZ. IG9A: HA6OH, HA6NH, HA6NH, HA6NH, HA6NY, HA6DX, YOSBRZ. IG9A: LYJUK, SVSCS, JAKLY, TISPLF, TISPOD, TISPSGN. IH9P: IT9BLB, IT9VDQ, IT9ZGY, IT9WPO, I8OLS, IK8ETA, W1NA, K7FL, KR7X, WA7EQW, OKTFUA, ZSGEZ, ZSGNW. IK3OH & IK3OHD IG3X: W3SKB, W3HAX.

JSA: DL8OBQ, K1FTA, K1EP, K2BHX, K2DQ, K2KQ, N2GA, JATYPA: JA1PEJ, JF1KOB, JH1AZO, JH1FDP, JH6VLF, JIXVE, JM1MKT, JO1CAL, JPGLG, JBSZOH, JH3PRR, JE3MAS, JG3KIV, JMSHAM, JFGNEY, JH5KNS, JRSJAQ, JRSVHU, JM11WB, JS1OYN, JA6ZPR: JH6JSR, JH5KNI, JH5KNS, JRSJAQ, JRSVHU, JM11WB, JS1OYN, JA7YFB: JAKAUM

J3A: DL80BO, K1FTA, K1EP, K2BHX, K2DO, K2KO, N2GA, N9KAU/2, W1WFZ, W09Z. J6R: K3LP, K3UG, K7KL, N3NT, J69AZ. JA1YPA: J41PEJ, JF1KOB, JH1AZO, JH1EDP, JH6VLF, J11XVE, JM1NKT, J01CRA, JP1OGL. J43ZOH: JH3PRR, JE3MAS, JG3KIV, JM3DPA, JH4MMT, JF4FUF, JR41SF, JA5BJC & JASFDJ, JA5JCC, JH5FXP, JH5RXS, JR5JAQ, JR5VHU, JM1UWB, JS10VN, JA6ZPR: JH6SSR, JH6SOI, JR6CKX, JR6HVE, JE6EKC, JI6MYW. JA7YFB: JA7AUM, JA7XGX, JA7FDY, JA7FDY, JA7MOM, JA7MSQ, JA7OZW, JH7MEX, JH7VHZ, JR7BPM, JR7LVA, J17HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JA7FBM, JA7LVA, J17HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JA7BDM, JR1LVA, J17HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JA7FBM, JR7LVA, J17HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JA7FBM, JA7LVA, JM7HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JA7FBM, JR7LVA, JM7HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JR7BPM, JR7LVA, JM7HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JR7BPM, JR7LVA, JM7HAV, JM7VFK, JJ1XGF, J011BV, JM1YUHZ, JM7HEX, JM1YHZ, JM1RA, JM1YHZ, J

LU4FM: LU1FAM, LU1FGE, LU1FGZ, LU1FI, LU1FZR, LU2FA, LU2FFD, LU2FT, LU2FYU, LU2JCW, LU3FCK, LU3FP, LU3FR, LU4FA, LU4FAC, LU4FAC, LU5FA, LU5FGG, LU6FA, LU6FEC, LU6FCC, LU7FCC, LU7FCC,

PJ4B: K1DG, K1XX, K2SS, K3EST, KL2A, N3ED, N6IG, N7ZZ, W3UM, W3ZZ, WA3LRO, PY3MHZ: HC1NG, PU3AGP, PU3CWD, PU3GIB (in memorium), PJ3MHZ: HC1NG, PU3AGP, PU3CWD, PU3GIB (in memorium), PJ3GUJ, PY3AFS, PY3ADY, PY3BM, PY3BZA, PY3ADY, PY3BM, PY3BZA, PY3FAZ, PY3GO, PY3TMR, R1MVZ: OH2BR, OH2KI, OH5BM, OH5NE, OH5SC, RA1ACJ, RA1ALY, RA3AUU, RU1AS, AB6BH, K6JL, N6AA, N6ZZ, W6NV. RW2F: RA2FA, RA2FBC, RN2FA, UA2FE, UA2FE, UA2FJ, UA2FP, UA2FX, RA2FBC, RN2FA, UA2FB, UA2FC, UA2FF, UA2FJ, UA2FP, UA2FX, RA2FBC, RN2FA, UA2FB, UA2FC, W3FDU, SYBKOM, SP5IKC, SQ5HAT(YL). SYBKDA: SP6GCU, URSWDQ, SP6-8522, SP6MQO, SP912, SP9UO, SO9SWO. SY10KR & OK1YM/SV, SV1DNW. T33Y: DL2NWK, DL2RUM, DL7DF, DL7UFR, V26B: N2TK, WX0B, W2FR, N3OC, DL6LAU, N3BNA, W3CF, W2UDT, KA2AEV, K3SW, WT3Q. V25BUC & V25SY. VE6FI & VE6AQ, VE6LB, VE6PY, VE6NA, VE6NWG, VE6JAG, VE6EM, VE6IG. VP5T: K2WB, N2VW, WA2VYA. VY2SS & Others. W9AHH2: W7BOK, AAGZZ, KB0VRV, W10K & N1GS, W2AX & K2LE, N2UN, N2FF, K2UU, N2OW, W1MA, VE1XT. W3LPL & K1HTV, K1RA, K1RZ, W2GG, ND3F, W3KX, A13M, K3MM, K3MQH, K3MA, K3GA, W3FP, N5OKR, NH6C, K9GY, W3MM & W3FP, AA1K, N3KW, NW3Y, N6ZQ, N3HUV, KD3UC, W3OR, K3FT, NX3A, K83DTT, W4D: KD5CQT, KK5EW, N5FG, W5FI, N4HPL, KB5IXI, WO5L, W5OXA, W4PGC, N5UE, W5UE, K4VW, K5YG, N5ZJ, N5ZX. W4MYA & AC4OB, N4HY, W4HYA, W4HYA, W4HYA, W4HYA, W4HYA, W4HYA, W4HYA, W3HO, W3AY, N4CQC, W3DR, K3FT, NX3A, K3DOTT, W4D: KD5CQT, KK5EW, N5FG, W5FI, N4HPL, KB5IXI, WO5L, W5OXA, N4HJ, K4BAM, K4WMA, K84DI, K74QQY, W4DR, W4HYA, & M4CAO, W3AB, L11, W3AZA, & K3DNE, K8OU, W3DR, XE2DV & K7JJ, W7SE, N7XK, YBØZDC: YGØDIO, YDØJXI, YDØJTN, YDØIR, YCØLOW, YCØJPS, YCØIFJ, YCØHHM, YZØSHW, ZXØF: PY5EG, PY5CC, PY5ZBU, PY5GU, PY2KC, K1CC, K1LZ, K1ZM, K2DM, N5FA, LZ1JK, LZ1JY.

KIBD	Name	14	NAMIC 1.282.572 1055 104 332	MISHIDAN
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*WW7Q A 516,241 602 90 237 K9HUH *N7IR " 455,304 524 92 219 NI9C	" 68,684 175 54 100 " 52,065 165 40 77	*WDØGQA 14 16,008 125 22 65	CO2WF 7 129,360 719 22 66 *CO8DC A 1,212,132 1613 87 245	MADEIRA ISLANDS *CT3GV 28 58,401 434 21 60
*N7RQ " 417,690 594 77 178 WD9FEN *K7TR " 254,358 453 69 165 KB9CYL	" 34,850 167 27 58 " 14,784 83 25 41	ALASKA Kl7ac a 981,843 1368 83 210	*CO8LY " 1,101,507 1554 80 239 *CM2TK " 60,928 258 39 89	MALI
*N7FL " 224,136 335 64 200 WA9TPQ	28 329,439 839 31 118	*KL1R A 323,900 655 65 140 *KL7FAP 21 133,532 738 26 50	*CO8DM 14 53,756 269 23 66	TZ6DX 28 465,080 1447 22 88
*KW7N " 124,256 278 64 112 K9IG *KI7Y " 119,228 274 57 107 W90P	" 327,780 667 34 146 281,344 653 31 126	ANGUILLA	DOMINICAN REPUBLIC	(Op.: K4RB)
*KE7RT " 107,088 290 46 92 N9PQU *KC7UP " 85,330 196 46 115 W90F	" 227,952 606 29 115 21 289,083 588 36 137	VP2E 28 2,106,016 5012 35 141	HI8ROX 28 229,274 834 28 90	MAURITIUS
*KX7J " 67,680 161 47 97 WI9WI	" 99,327 351 30 83 14 116,886 334 35 103	(Op.: WØGJ)	GREENLAND *0X3C0 21 276 9 5 7	*3B8 /KD6WW A 2,534,468 2057 114 322
*KD7DOK " 51,858 206 49 85 K9YNF	" 115,443 334 31 96	BARBADOS 8P1A A 11,013,948 7852 140 454	GUADELOUPE	NIGERIA
*KC5AC/7 " 44,980 139 69 61 N9HCA *WA2OCG/7 " 32,700 148 32 68 AA9VR	" 68,580 262 30 78 " 10,716 75 16 41	(Op.: W2SC) *8P6EX A 142,600 300 56 144	FG5BG A 7,413,678 4950 146 493	5NØW 21 1,625,406 3139 38 145
*W7IIT " 27,937 109 34 57 K9CJ *KC7WUE " 26,550 120 37 53 *K9XD	7 4,095 38 11 28 A 1,235,832 1019 120 346	BRITISH VIRGIN ISLANDS	MEXICO XE10BD A 9,447 154 20 27	SENEGAL 6V6U A 9,562,950 6118 128 410
*W7YR " 5,390 34 22 33 *W7GTO " 595 14 8 9 *W09S	(Op.: N9VVV) " 1.134.326 1086 99 295	*VP2VF 28 832,710 2935 29 94	XE1VV 28 54,450 200 26 73 *XE2DN A 1,210,400 1360 121 235	(Op.: K3IPK)
*WJ7S 28 210,420 620 31 95 *K9JE	" 595,876 674 83 228 " 572,520 710 80 232	CANADA VE9FX A 628,895 790 86 279	*XE2Q " 666,573 1341 83 166	SEYCHELLES *S79AU A 4,386 47 22 29
*W7YAQ " 40,068 172 25 59 *K9YA	" 563,220 674 81 234	VY1JA " 142,164 328 73 125 XJ1JF 28 762,783 2061 31 116	*XE2MX	(Op.: IK4AUY)
*KI7XA " 20,167 127 24 43 *K9QVB *W7AVA " 11,718 69 21 42 *KG9AV	" 547,616 691 82 232 " 516,672 684 85 214	VC1A 3.7 305,000 1260 26 99	*XE1GR	SOUTH AFRICA
*W7YU " 962 25 13 24 *K90P * NW7Q 21 189,596 497 33 106 *WT9U	" 445,887 529 90 219 " 413,192 570 70 204	(Op.: K3BU) VE1JF " 158,974 766 21 80	*XE1JE0 28 694,560 1779 32 128 *4B1BEF 104,386 602 26 56	ZS6SA A 4,528,840 4138 115 289 ZS5NK " 373,550 596 78 163
*WS7V " 165,105 445 34 101 *NG9L *KG7RZ 14 65,535 217 32 84 *N9XX	" 265,232 429 61 181 " 204,720 321 78 162	(Op.: W5AJ) *VE1JS A 978,711 1104 80 247	*XE3WAO	ZS4
NSII A 4 007 880 2665 127 413 *KA9FAJ	" 172,900 358 51 131	*V01HE " 153,340 284 60 145	*XE1CRO 21 545,860 1735 35 105	ZS6HO " 16,200 93 22 38 ZS6IR 28 199,472 519 30 107
KE8GG " 1,236,038 1062 114 308 *WB9LRK	" 153,881 233 74 173 " 150,535 292 49 138	VE2ZP A 2,125,354 1682 121 397 VE2AE " 1,895,703 2406 84 242	MONTSERRAT	ZS6H 14 77,926 270 28 66 *ZS4NS A 2,640 40 17 23
WB8TLI " 1,124,591 1030 98 279 *W9LYN	" 139,416 247 72 150 " 128,095 276 59 128	VE2AYU " 1,863,115 1850 96 295 VA2AM " 80,892 214 53 136	VP2MGL A 1,165,220 2137 70 175 (Op.: EA3WL)	*ZS1ESC 28 265,360 840 29 78
K8FC " 856,324 667 123 391 *W9ILY	" 85,968 232 39 105 " 85,960 270 38 102	VA2BY 3.7 81,249 903 16 37 *VE2GSO A 1,030,029 1555 74 199	*VP2MBT A 674,336 1566 58 150 (Op.: EA3BT)	TUNISIA
W8KEN " 672,237 749 84 255 *KF9VJ	" 31,324 137 23 59 " 29,812 96 44 72	*VE2AWR " 808,633 945 88 261	PANAMA	3V8BB A 10,939,698 5796 147 546 (Op.: YT1AD)
W8UPH " 604,160 759 72 223 ** KB9JIF	28 86,219 300 29 80	*VE2GWL " 256,074 501 54 147 *VE2ZDR " 15,400 113 28 60	*H03A A 274,626 555 66 153 *HP1HEW 46,096 200 36 50	ZAMBIA
K6VWE/8 570,064 683 74 242 *KA9JAC	" 71,577 254 17 82 " 60,894 234 24 78	*VE2G\$X 28 145,148 373 28 103 *VE2PIJ " 14,991 98 16 41	*3E1DX 14 673,608 1921 32 124 (Op.: HP1XVH)	9J2FR A 1,443,295 1628 90 211 9J2A 21 2,331,054 4162 38 160
W8KX " 318,636 368 73 245 ***********************************	" 52,452 213 22 71 " 29,550 394 22 53	*VA2SRE 21 159,959 643 25 78 *VA2KCE 14 244,800 1215 23 77	PUERTO RICO	(Op.: JAØJHA)
N8KOJ * 302,775 455 68 207 *W9IXX	" 21,606 111 20 58 " 7,584 71 18 30	*VE2MAQ " 21,318 183 14 37	KP4 /SM5A0E A 554,876 843 68 198	ZIMBABWE Z21KD 28 454,572 1377 31 91
WD8JLM " 285,821 438 82 207 *K9AB	21 62,726 219 0 78	*VA2DXE 1.8 570 69 3 2 VE30I A 6,273,328 4076 137 447	KP4K0E * 38,372 300 15 41	(Op.: DK4XJ)
NSSO " 218 488 301 67 181 *W9HV	14 55,500 253 23 77	VE3RM " 4,016,105 2879 127 418 VE3AT " 2,780,085 2437 102 313	*WP4LNY A 251,136 868 44 100	ASIA
KT8X " 176,774 393 50 119 *W9J00 (Op.: JE2LUN) N2IC/Ø	54,099 201 26 83 A 5,074,398 3020 157 461	VE3KPU " 1,726,280 1665 106 306	ST. KITTS & NEVIS V47KP A 5,051,475 4082 117 378	ARMENIA
AD8J " 166,872 312 61 143 WØEJ	" 2,511,059 2083 125 342	VE3KZ 28 1,002,925 2142 35 140 VA3RU " 899,836 1763 36 160	(Op.: W2OX) V47NS 28 1,072,530 2635 34 119	*EK6TA A 1,755,015 1817 81 264 *EK6CC 14 387,587 1114 35 114
W8WWC " 80,800 201 54 146 NØAH	" 2,063,205 1636 120 345	*VE3PN A 2,305,394 1884 122 356 *VE3OTL " 1,114,947 1135 101 286	(Op.: W9NY) V44NK 21 30,767 564 24 71	ASIATIC RUSSIA
WA8RSA	" 1,411,200 1202 119 322 " 1,102,218 1193 92 246	*VE3STT " 901,901 902 87 284 *VA3JFF " 589,440 728 77 230	ST. MAARTEN	UA9MA A 5,692,200 3385 141 495 UA9AM " 1,578,042 1558 107 352
WT8E	" 1,095,854 1166 81 253 (Op.: K9WIE)	*VA3SWG " 579,762 988 72 207 *VE3ZZ " 576,688 727 76 228	PJ8/N7KG A 7,662,684 6053 127 421	RA9DZ " 1,156,800 1236 96 304 UA9LAC " 782,400 971 76 244
K3ZJ/8 28 389,222 972 31 111	" 646,204 809 87 202	*VE3ST " 333,166 490 59 180 *VE3LBQ " 33,396 118 40 92	U.S. VIRGIN ISLANDS KP2A 28 2,324,283 5230 37 146	RK9CWG " 759,486 949 78 243 (Op.: RA9CGK)
NA8W " 25,488 132 14 58 KEØUI K8DX 21 1,235,388 2416 38 153 NØZM	" 330,250 525 68 182 " 166,537 246 80 179	*VE3SYB " 7,107 53 27 42	(Op.: KW8N) WP2Z " 2,297,199 5126 37 146	RA9DA " 459,510 571 78 240 UA90S " 416,160 611 79 210
W8UD " 267,696 637 36 120 K1LR/Ø	" 165,400 302 52 148	*VE3ZT 28 491,722 1188 30 124	(Op.: N5RP) KP2/K1VW 7 167,960 794 21 83	RA9AN " 242,351 365 67 190 RA9AC " 139,810 270 49 156
WØCD/8 3.7 37,446 270 19 60 KØDAT	" 153,408 294 61 127 " 143,850 249 58 152	*VE3TLT " 2,631 50 11 20 *W8IQ/VE3 21 154,559 438 29 98	*KP2E 21 230,826 1039 23 79	UA9KM " 129,904 314 58 126
(Op.: W8UVZ) WØOSK *KF8K A 1,145,772 991 105 307 KBØTFT	" 140,448 289 67 142 " 132,848 343 45 107	*VE3D0 1.8 2,530 55 10 13 VE4GV A 521.472 847 68 188	(Op.: N4FD)	UA9XEN " 66,246 150 60 123 RW9DX " 59,869 185 39 98
*KI8CS " 817,336 797 100 277 KØFG *N8CN " 611,830 765 79 216 K4VX/Ø	" 121,260 248 52 163 " 117,961 239 54 125	VE4IM " 476,424 602 87 225	AFRICA Algeria	RX9FG " 43,845 159 31 80 RW9HA 28 677,188 2029 34 124
*WA8WV " 534,625 620 85 240 WBØIEL *KG8ZD " 289,907 486 66 173 WØTT	" 115,940 240 51 119 " 108,096 210 71 121	VE4RA " 38,352 126 47 89 *VE4YU A 14,516 75 24 52	*7X2R0 A 56,854 248 33 98	UA9CDC " 455,215 959 33 148 UA9CAW " 125,160 409 27 93
*W8VE " 252,720 420 67 176 WXMII	" 59,778 168 58 104	*VE4VV 28 562,839 1387 30 133	ASCENSION ISLAND ZD8Z 28 3,794,280 6247 40 170	RZ9UA 14 1,063,950 2360 37 136 *RZ9WZ A 1,887,349 1654 103 328
*W8IDM " 141,696 277 48 144 KI7W0/Ø	53,460 175 46 86 53,132 149 52 96	VE5AAD 21 84,600 348 23 77 *VE5MX A 73,556 205 61 87	(Op.: N6TJ)	* UA9JDP " 1,002,588 1590 65 203 *RW9QA " 901,945 1018 76 265
*KE8PX " 109,518 1361 74 189 WØMW *N8UBK " 98,532 234 41 112 WMØG	" 52,096 152 46 82 " 50,828 149 42 89 " 21,534 81 37 60	*VE6ZT A 486,024 807 72 192 *VE6BMX 28 192,368 1065 27 61	BURKINA FASO XT2HP A 74,693 229 35 78	*RK9SWF " 807,598 850 81 273
*K8CV " 91,960 220 46 106 WØNF *N8AA " 86,064 197 47 116 WDØBWM		VE7SCC A 358,053 971 72 141	(Op.: JA10EM)	(Op.: RA9-167-69) *RK9AD " 434,534 562 86 248
*KC8HWV " 66.080 187 42 98 N7DR/A	28 891,616 1769 38 149 " 575,003 1449 33 110	VE7XF " 318,562 411 99 199 VE7XO " 224,541 424 63 120	CANARY ISLANDS EA8BH A 25,646,796 10253 176 692	*UA9CR " 313,900 424 77 215 *RA9XF " 284,540 541 51 154
*K8VUS	" 309,894 842 30 107 " 146,280 374 32 106	VE7IN 28 310,002 1109 31 90 VE7NNN " 140,679 635 24 75	(Op.: N5TJ)	*UA9ZBN " 192,096 348 66 166 *UA9ORQ " 168,340 357 58 132
*AB8DE	" 131.318 404 29 98	VE7VF " 115,100 418 27 73 VC7C 21 1,395,072 3298 35 138	EA8BAY 3.7 8,160 71 9 31	*RW9RF " 111,048 269 45 123 *UA9JMS " 92,637 299 37 104
*K8LY	" 30,780 148 23 58 21 849,603 1807 37 136 " 849,603 1807 37 136	(Op.: VE7AHA) VE7NKI " 598,644 1810 33 105	*EA8IK A 108,438 243 50 136 *EA8AEI 28 119,357 394 26 93	*RZ90U " 91,936 213 53 116 *RA9CZ " 10,920 95 19 59
*K8IR 28 205,719 523 28 113 KGØZI	" 48,048 197 24 67 14 211,400 726 35 105	VE7GL	*EA8/ES7RE " 100,891 506 21 50	*RX9SR 28 339,012 922 31 115
*KA8NRC " 62,239 237 26 83 WOAH	7 50,076 200 28 89 3.7 9,662 75 19 41	VE7XR 14 644,894 1386 38 140 VE7AV " 132,360 402 30 90	CEUTA & MELILLA *EA9AR A 674,366 792 68 234	*RA9AE " 237,120 678 33 119 *UA9JMB " 223,000 900 20 80
	7. 30,576 256 25 35 3.7 9,662 75 19 41 1.8 6,318 193 14 25 A 907,542 859 106 291	*VE7CV A 442,510 614 84 190 *VE7UQ " 390,104 620 77 165	*EA9IB 28 471,582 1119 30 112	*RV9BB " 196,520 558 32 104 *UA9CES " 110,210 415 26 81
*KC8TL " 10,360 70 17 39 *WØFTT	" 288,684 363 99 198	*VE7TLK " 376,896 935 74 134 *VE7CVM " 355,866 572 94 165	DJIBOUTI J28NH A 53,328 175 39 93	*UA9AAP
*KC8LTL " 7,956 67 16 36 *KØVSV	" 204,895 371 67 148	*VE7VR " 208,527 365 73 140 *VE7XB " 204,498 438 62 127	EGYPT	*RK9KWB 21 277,712 802 33 103 *RA9AUH " 73,010 287 23 75
*NG3Q/8 " 132,310 341 31 100 *KØSZ	" 150,549 320 65 136 " 134,524 338 49 120	*VE7HA " 20,034 134 29 34 *VE7GFS 28 447,501 1549 30 99	*SU9ZZ A 4,823,882 3410 106 391	*RJ9J 14 716,720 1846 37 133 (Op.: RA9JR)
*WT8P	" 121,396 280 57 121 " 97,148 222 56 107	*VC7A 21 1,113,196 2628 35 131	*9E1C 14 188,806 568 32 102	*RK9LWA " 143,990 507 30 91 (Op.: Krainov)
, KINCE	" 39,644 138 35 71 " 38,850 151 39 72	(Op.: VE7SV) *VE7SV 1.8 6,289 185 10 9	(Op.: IV3OWC)	*UA9BS " 130,750 409 31 94
WB9Z A 5,503,582 3160 156 475 *KBØWHY W9RE " 4,811,092 2749 156 491 *KCØFUD K9BGL " 2,390,165 1771 131 374 *WØOF	" 17,496 83 32 49 " 7.548 50 21 30	CAYMAN ISLANDS	GHANA 9G1MR A 198,186 689 29 73	*RK9AC " 120,086 497 25 72 *UA9ACJ 7 38,214 218 15 60
KB9MDL " 1,298,108 946 126 392 *NØRIA	5,550 69 29 30 28 438,075 950 34 131	ZF2MK 28 1,635,097 3980 35 132 (Op.: K9MK)	9G5ZW 28 2,060,289 3805 38 151	RVØAM A 1,265,486 1751 95 227 RAØAM " 867,350 1319 110 308
N9UA " 1,061,346 942 107 322 *KAØDX	# 400 FFC 0C0 00 404	ZF2LA 1.8 40,545 483 12 33 (Op.: K9LA)	KENYA 5Z4IC 28 829,863 1806 36 135	RVØAX
N9UA 1,061,346 942 107 322 *KAØDX N9QQK 642,147 740 78 241 *NØYKN W9RN 620,574 629 102 251 *KØLLS	" 10,887 82 17 40 " 3,290 35 14 21	COSTA RICA	LIBERIA	UAØJDD " 162,155 427 74 131 RWØBG " 120,184 322 55 126
K9UQN	21 227,696 562 35 117 " 175,968 453 34 107	TI7DBS 21 425,752 1291 35 117	EL2WW A 1,767,817 1699 96 265 (Op.: ON4WW)	UAØSR " 24,444 204 37 60 UAØLS " 8,832 85 24 45
N9WKW " 180,048 288 78 186 *NØUU K9CS " 115,596 222 76 152 *KDØNB	" 113,652 330 33 93 " 68,556 264 30 86	CUBA CO9BKK A 525,515 771 81 224	LIBYA	UAØCW 21 349,752 1041 36 116 RAØCG 3.7 74,617 473 27 56
KF9YR " 113,643 255 54 129 *AAØAI	" 67,084 242 33 91	(Op.: CO2JA)	*5A1A 14 165,996 530 23 85	UAØWY " 45,653 297 16 55

				7
*RSØF A 3,393,404 2925 135 341 (Op.: UAØFZ)		*JK3DGX/3 " 267,600 664 36 114 *JA3LEZ " 111,531 347 29 84	JA9IKL 28 16,703 115 21 36 *JA9KUG A 62,542 188 50 93	UNITED ARAB EMIRATES A61AJ 28 2,177,156 3974 40 162
*UAØANW " 728,750 1120 75 200 *UAØYAY " 332,640 476 76 212	*JR4PMX/1 28 745,850 1520 37 138 *	*JA3VXH " 61,389 220 33 76 *JA3TC " 49,041 232 27 59	*JE9UUY	(Op.: DL2CC)
*RAØLU	(Op.: JL1WFD) *	*JL3RDC " 19,747 131 24 44 *JR3CVJ " 16,152 93 25 44	*JA9TQY " 87,683 318 28 77 *JA1ALX/9 " 59,499 260 28 63	UZBEKISTAN UK9AA A 3,919,255 2815 128 419
*UAØAPP " 9,576 60 23 40 *RAØFW 28 286,085 788 37 108	*JF1RWZ " 100,144 439 25 63 *	*JA3BBG " 12,490 88 21 36 *JR3CVO " 9,647 73 22 32	*JA9QOY " 57,239 252 29 63 *JH9URT 21 223,091 672 32 94	*UK8IG A 253,725 510 52 147
*RUØSU * 119,527 555 18 61 *UAØFDX 21 705,860 2166 36 109	*JA1MYW * 77,519 324 27 62 *	*JG3EHD 14 1,053 20 8 13	JRØWZR A 1,164,377 1083 116 310	WEST MALAYSIA 9M2TO A 1,802,808 1945 120 321
*RZØCQ	*JH1CML	JH4UYB A 5,905,708 3753 155 431 JH4ADK " 1,066,716 1084 116 262	JHØRNN " 646,961 692 107 266 JHØRNN " 130,560 257 53 139	*9M2JI A 60,393 290 48 75 (Op.: JK1AJX)
*RAØCL	*JA1VVH * 34,482 174 22 57 5	JA4DPL " 468,860 787 76 162 JA4ESR " 136,444 319 68 107	JAØHYU " 63,541 166 53 105 JAØQWO " 32,712 100 44 72	EUROPE
*RAØFF 3.7 13,376 188 19 25	*JE1HJV 9,353 77 18 29 3	JA4DHN " 31,955 92 49 87 Jl4DJM 28 131,104 361 36 100	JAØRCK 21 27,832 105 27 71 JAØQNJ 7 210,630 736 33 85	ALAND ISLANDS
ASIATIC TURKEY *TA3BN A 1,009,665 1300 69 208	* IE1DEII " 2024 37 11 23 U	JA4XRN " 2,112 24 13 19 J H4JNG 21 629,668 1494 38 126	*JAØTEN A 39,265 145 43 64 *JAØGEY " 16,434 102 36 47	OHØZ A 6,620,832 4765 146 486 (Op.: OH2MAM)
*TA4ED 28 435,490 1432 31 79 *TA3YJ 2,160 39 4 16	* IA1AA\/ =	JH4CPC 3.7 769 17 11 12 JA4YPE " 48 3 3 3 3	*JGØGGI " 8,442 49 28 39 *JEØVFV " 4,266 39 20 28	ALBANIA
*TA3D 21 819,674 1839 38 135 *TA3J 3.7 178,128 893 10 62	*JG1ZUY 21 537,624 1523 37 115 *	(Op.: JF3EBO) *JR4GPA A 529,074 812 67 167	*JGØIPW " 1,378 20 14 13 *JAØGZ " 1,295 22 14 18	*ZA/S51PF A 2,156 34 17 32 AUSTRIA
CHINA	*JA9SCB/1" 241,956 720 33 99 *	*JE4MHL " 311,491 458 81 170 *JA4AQR " 90,997 231 44 105	*JHØFUW 28 408,204 963 36 117 *JH1BXH/Ø" 399,785 1036 34 115	OE1EMS A 2,880,598 2494 132 449 OE8CIQ " 485,760 900 76 244
*BA4DW 28 348,530 988 33 97 *BD4ED 21 510,440 2127 36 104	* IA G D A C (4 1 4 0 4 0 4 4 4 C 0 0 0 4	*JA4EBU " 4,366 44 11 30 * JM4WUZ 28 233,033 691 33 97	*JRØEQQ " 73,431 260 34 89 *JHØEPI 14 159,269 491 34 95	0E1TKW " 7,104 69 23 51 0E3I 28 569,800 1361 38 147
*BA4EG 14 7,905 285 12 19	* IA1RRA " 43.516 203 28 58	*JA4KTE " 221,647 645 36 100 *JE4BTE " 90,614 301 33 88	*JEØRHE " 57,582 189 36 90 *JAØVHI 3.7 111 8 3 3	(Op.: OE1JNB) OE6Z 14 1,878,569 4150 40 177
CYPRUS H22H 28 1,831,500 4020 39 141	*JH1FOP	*JA4CTL " 49,338 199 30 67 *JA4ETH " 44,486 199 27 62	JORDAN	(Op.: OE6MBG) *OE7AJT A 235,466 490 66 212
(Op.: 5B4MF) H2T 21 1,405,760 2854 38 146	* IC10NIV " 14 340 06 20 40	*JN4GHQ " 40 3 1 3 *JA4BAA 21 29,638 152 23 57	JY9NX A 7,800,344 4912 126 442 (Op.: JM1CAX)	*OE1BKA " 34,452 148 35 81 *OE2S 28 105,925 506 26 69
(Op.: 5B4XF) GEORGIA	*JO1RGV 8,136 77 18 25 *	*JA4JJI " 23,348 146 23 44 *JA4TWZ " 8,848 69 23 33	*JY9NE A 53,360 178 30 85 (Op.: N3FNE)	(Op.: OE2GEN) *0E3WMW 7 19,053 227 14 59
*4L1W 21 70,810 372 16 57 *4L7AA 7 10,440 70 21 37	*JH1KZQ/1 " 5,864 53 18 40	*JA4KDD " 422 6 6 5 JH5FXP A 6,195,458 4290 138 385	KAZAKHSTAN UP4L A 3,582,072 2729 121 395	AZORES
*4L2M 3.7 53,884 282 14 72	*JO1TLP " 5,562 51 17 26 J	JASIP " 92,602 218 59 111 JH5FIS " 14,792 74 35 51	(Op.: UN7LZ) UP6F " 615,285 684 94 269	*CU3AV A 106,049 370 42 131
HONG KONG VR2BG 14 304,854 1016 38 111	*JK1BII " 3,912 45 16 23 J	JA5ATN 28 37,921 221 19 44 *JA5EO A 399,636 791 65 131	(Op.: UN7FZ) UN7TO " 99,792 228 48 114	BALEARIC ISLANDS EAGAEQ A 759,150 1037 84 266
INDIA	*JE1PJR * 2,550 47 10 11 *	*JH50XF " 125,913 319 50 91 *JA5NSN 28 84,410 303 32 78	UN7JX 28 281,050 871 32 122 *UP5P A 2,499,800 2584 139 441	EA6ZS " 81,503 299 40 109 *EA6LP A 371,840 639 85 247
VU2WAP A 2,071,104 1834 115 354 ATØVLH 7 181,591 782 26 87	*JR1BSV * 813 19 8 13 *	*JF5FGY " 15,433 81 27 52 *JG5VIA " 10,808 63 28 41	*UN8GU " 401,706 668 70 188	*EA6ZZ " 116,012 311 58 136 *EA6YW " 26,112 105 44 58
ISRAEL	*7M3RMD * 86 8 4 7 *	*JR5HXU " 1,975 23 13 21 *JE5MCV 21 486,999 1161 38 115	*UN9FD " 36,600 146 44 78	*EA6VQ 28 69,930 439 17 46 *EA6XQ " 37,296 278 22 50
4X4DZ 28 1,413,720 3257 37 133 4X1GA " 21,797 157 21 50	*JE1GZB 14 16,720 92 26 50 J	JQ6NAW A 1,221,035 1273 111 263	KOREA HLØO A 93,978 443 66 141	*EA6TC " 33,726 244 21 56 BELARUS
4X6ZK 21 959,977 2053 38 135 *4XØF A 259,187 472 56 135	*JH1AIL 7 2,248 36 16 19	JA6WW 28 97,232 323 31 87 JJ6DGP " 77,024 275 29 80	*HLØHQ A 129,050 539 57 88 (Op.: DS1HAL)	EU1KR A 135,240 420 51 159
(Op.: 4Z5FL) *4Z5CP	JA2BNN A 1,703,870 1875 114 232	JA6AV " 38,016 153 31 68 JA6BCU " 11,456 100 6 40	KUWAIT	EU1PA " 118,656 429 56 150 (Op.: EU1KR) EW3LN " 5,959 65 16 43
*4X6TT 28 379,332 889 37 127 *4X/OK1CW " 334,336 1003 30 98	JF2FIU * 341,250 664 72 123 J	JR6EZE 21 802,402 1851 37 130 JH6EJG 7 51,639 215 27 74	9K2HN A 9,330,834 5019 156 531 KYRGYZSTAN	EU6TV 28 2,170 29 14 21 EW6GB 21 23.828 196 18 56
*4Z5FW * 33,174 200 15 42	JA2ZJW 28 374,904 1097 33 90 *	*JA6EML A 738,110 888 92 218 *JH6OPP " 737,154 926 89 217	EX8W 14 913,616 2224 38 141 *EX2T A 1,265,962 1322 89 284	EW3EW 14 142,480 522 38 99 EU1CC " 46,560 372 23 74
JAPAN JA1ELY A 3,727,365 2456 161 412	JA2CWU 21 72,592 304 26 67 *	*JH6FTJ " 236,027 495 56 130 *JA6QDU " 39,171 146 42 62	*EX8MIO 28 36,491 161 23 68 *EXØY 21 287,420 909 33 107	EW6AF " 43,710 321 23 70 EU5A 7 153,472 987 28 100
JM1XCW " 2,457,048 2288 122 288 JF10PL " 784,896 1038 96 196	JA2DLM 3.7 4,154 46 16 24 *	*JH6AUS 28 646,462 1389 38 141 *JA6EFT " 125,070 393 36 89	LEBANON	EW1WZ 3.7 126,276 1202 20 82 EU4EU " 26,488 468 7 49
JF1SEK * 633,888 820 83 205 JR1GMK * 614,835 1114 64 131	*JF2SKV * 168,439 388 67 112 *	*JN6GBB " 65,018 264 28 66 *JH6TYD " 48,555 237 21 55	OD5NJ A 6,550,950 4707 116 394 OD5	EW6TU " 17,898 416 10 47 EW7DX " 13,250 205 9 44
JF1EQA 485,342 656 89 197 JR1LEV 314,266 496 84 164	*JP2XYT * 133,760 289 64 126 *	*JA6CBW " 33,787 173 56 23 *JA6BIF 21 6,815 83 14 18	/OK1MU 14 977,394 2106 38 139	*EU1SA A 619,920 843 93 276 *EW1NA " 237,120 487 71 214
JA1HP	^JA2BUX	JA7JHT A 270,600 394 88 176 JJ7SRA " 38,836 136 42 76	MACAO XX9TRR A 4,415,560 3535 154 436	*EW6DF
JR1LZK	*JH1ABP/2 113,527 287 57 119 3 *JH2WHS 83,279 245 47 88 3	JH7XGN 28 965,960 2117 36 128 JH7DNO " 835,604 2294 36 118	*XX9SC 21 33,062 342 28 53	*EU6AR " 71,094 338 38 85 *EV5M " 30,030 183 39 91
JR1JCB	*JG2REJ	JA7WME " 511,210 1605 35 99 J JH7BZR " 172,353 848 21 52	*XX9AU " 15,000 200 22 28	*EW6AL 28 122,012 413 28 90
JH1FSF 28 534,404 1137 38 134 JF1CKA " 309 632 986 32 86	*.IA2TKO	JA7ERJ " 103,105 383 32 75 J H7NPF 21 236,347 830 29 83	MONGOLIA JT1CO A 4,715,064 4718 125 373	*EU6DX
JA1BK 233,404 528 38 134 JR1BTG 218,730 711 33 82	*JI2VLM	IH71 RS 14 603 943 1332 37 136	*JT1CJ A 237,241 826 40 91 *JT1JA " 194,127 546 66 127	*EW8DA
JJ1RDX	*JN2EIU	"JA7NVF A 811,462 1136 86 190 "JH7CJM " 47,045 118 57 108 "JA7ARW " 8,828 67 24 33	(Op.: JT1BG) *JT1BV 28 175,905 696 28 93	*EU6TT 3.7 15,433 223 11 50 *EU6EU 1.8 37,926 601 8 55
JA1ANA 20,230 98 26 53 JQ1LPT 15,629 80 26 54	*JA2KKA * 59.765 275 23 62 .	*JF7GDF " 5,227 49 20 25 *JRØEFE/7 " 4,472 41 26 26	OGASAWARA ISLANDS *JD1BIA A 161,390 1088 47 60	BELGIUM
7J1ABD " 12,934 84 17 41 (Op.: WA6URY)	*JA2GAL	*JA7BEW 28 472,940 1240 37 110	PALESTINE	OT9P A 1,007,736 1263 94 304 (Op.: ON6AH)
JA1AAT " 10,755 70 19 44 JJ1JRH " 5,651 81 12 14	*JR2LIS 21 246,050 709 35 98 *	*7J7ACZ " 149,846 454 31 98 *JE7DOT " 77,271 306 28 70	E41 /OK1DT 21 1,105,920 2575 37 123	* ON5GQ A 1,342,742 1383 115 394 *ON4AOI " 820,050 1017 93 257
JH1EAQ 21 575,384 1529 34 108 JE1LFX " 487,611 1225 36 117	*JA2IZA * 4,213 43 12 26 *	*JA7COI " 53,206 260 23 51 *JR7CJO " 44,965 207 26 59	E44DX 3.7 261,590 1017 20 81 (Op.: OH1RY)	*ON5CZ " 19,110 108 28 50 *ON4KMB " 11,926 100 25 42
JR1MQT " 330,253 1099 33 81 JA1XEM " 1,568 29 10 12	*JF2FKJ	*JR7CJO	SAUDI ARABIA	*ON7SS " 3,600 39 18 27 * ON4TO 28 273,942 730 37 134
7M4BEN 14 721,875 1543 39 136 *JL1ARF A 3,001,683 2298 138 333	JS3CTQ A 3.878.138 3237 120 311 *	*JH7FUI 21 61,100 230 28 66 *JM7EPG " 25,788 142 22 52	HZ1AB A 7,862,400 5179 122 418 (Op.: DF1IK)	BOSNIA-HERZEGOVINA
*JJ1VRO	JE3HDD 	*JR7LVK " 13,314 173 25 60 *JA7ADV " 7,029 70 18 31 * JR7VCL " 4,870 50 18 24	SINGAPORE 9V1RH A 81,500 243 58 105	T94MZ 21 271,123 1209 34 103 T94LW " 214,953 895 34 103 T95A 7 4 633 91 8 33
*JA1BUI	JF3MKC	"JR/XGL " 4,879 50 18 24 "JN7LDV " 4,330 46 17 23	*9V1BG A 431,756 782 97 202 *9V1XE 28 32,682 278 26 52	T99W 3.7 150,920 1218 22 88
*JG10WV	JR3NZC 21 657,122 1626 35 123 *	*JR7LAQ " 3,323 45 15 17 *JL7IFR " 1,943 29 14 15 *JA7RIS 14 316 300 606 33 107	(Op.: VK3DXI)	* T93R A 57,276 240 33 78 * T97M " 37,448 111 46 78 * T09W " 22,919 155 42 90
*JE1UFF	JA3CE 7 2,140 23 17 21 J	*JA7BJS 14 216,300 606 33 107 JA8RWU A 3,844,800 2886 139 341	SRI LANKA 4S7EVG A 113,306 332 59 122	*T98W
*JJ1QJP	^JI3BFC	JA8RWU A 3,844,800 2886 139 341 JA8TEZ " 92,523 273 55 85 JH8UQJ 28 149,435 484 31 90	TAIWAN	*T92M " 60,864 277 26 70 *T95MMX 21 1,326 23 8 18 *T94D0 14 92,230 561 25 90
*JA1XRH	*JH3TXP	*JH8SLS A 1,669,920 1489 115 305 *JE8NYY " 47,234 177 38 75	BV7FF 21 120,600 810 29 71 *BV3FQ 28 14,941 83 23 44	*T91AAW 7 25,853 239 20 83
*JA1HFY	"JJ3APB	*JH8HEO " 25,578 135 33 54 *JA8GTO " 5,692 41 31 35	TAJIKISTAN EY8MM A 3,939,948 2835 127 446	*T97Y " 6,650 104 9 41 BULGARIA
*JG3NKP/1 " 65,760 175 49 88	*JN3BMB	*JK8HOS " 4,615 43 21 25 * JH8DHV 28 78,617 328 29 68	THAILAND	LZ5QZ A 1,206,771 1805 97 336 LZ1ZD " 1,033,389 1653 99 324
*JH10LB	*JG3MMD 28 15,680 106 19 37 *	*JH8QBY 21 28,417 142 23 55 *JI8GZS " 11,537 81 23 34	HSØ /SM3DYU A 47,854 145 55 87	LZ6A " 906,105 1305 102 333 (Op.: LZ2EG)
*JH1RMH * 20,101 100 30 51 *JN1WTQ * 12,540 83 33 43	* IH2AKD " 2750 32 14 23	*JK8TOE " 3,783 63 16 23 *JK8FRL " 79 6 5 4	TURKMENISTAN	LZ1BJ " 861,105 1356 98 319 LZ1QV " 40,703 203 32 69
*JH1RDU * 4,244 33 22 31	*JL3VUL/3 * 429,987 1185 35 107 J	JA9DDF A 76,560 210 56 89	*EZ8CW A 26,796 122 33 54	LZ1BG " 23,205 88 41 64

LZ1QZ " 748 12 11 11	*0K1CZ	RA4CC * 400,920 1333 36 120	*OH1HJO " 102,185 323 44 147	DJ7AA 14 1.822.464 3692 40 186
LZ1NG 28 697,000 2005 38 162 LZ6W 14 115,994 409 30 88 (Op.: LZ2PEP	2 *OK1MMN * 12,540 153 17 40 3 *OK1AKF 14 29,241 240 17 64	RV6LJK * 158,382 860 31 95 RN6HE * 156,584 515 33 115 RV6LOB * 113,832 430 34 119	*OH2NN	DF7YU " 304,854 961 40 146 DF4IAR " 208,500 915 32 93 DL4NN 7 34,202 269 21 77
LZ2CJ 7 292,530 1323 34 113 *LZ2NB A 482,460 802 86 254 *LZ3YY " 226,709 641 58 175	\$ *OK1FWW 5,080 95 10 30 \$ *OK1DVK 714 26 6 15	RX3ABI 2,294 33 13 18 UA3EJU 14 40,375 310 21 64 RA1ABU 5,963 99 17 50	*OH4A 28 172,744 610 34 109 (Op.: OH4JLV) *OH2LU " 136,752 438 27 105	DL3LAB 3.7 147,805 1204 21 82 *DKØDO A 2,265,189 1983 120 449 (Op.: DL1MGB)
*LZ2DB " 142,830 366 54 153 *LZ3TL " 74,725 322 45 130	3 *OK8PPA 3.7 460 25 5 18	RW4PL 3.7 95,312 607 24 88 RK4FD 50,286 516 14 73	*OH4YT " 81,534 380 26 81 *OH2BNX " 56,832 221 25 86	*DF7RX " 2,073,500`1857 124 456 *DL7ANR " 1,569,584 1413 117 409
*LZ5AZ " 67,450 272 40 102 *LZ1AQ " 55,263 170 48 121	OZ5EV 971,774 915 116 362	RA3XA	*OH5PA " 54,208 176 20 101 *OH2MO " 24,534 188 21 66 *OH6RC " 5,238 46 17 37	*DL3NCI
*LZ4BU " 13,446 65 36 45 *LZ2MP " 11,360 62 29 51 *LZ4HM " 2,288 31 17 27	OZ6PI 65,992 209 43 103 OZ5MJ 55,424 220 48 80	*RU3DVR " 453,152 672 92 300 *RA1AW " 429,490 797 71 219 *RZ3FR " 289,501 583 72 235	*0H1WR " 682 13 9 13 *0H8NLC 21 66,960 319 24 84 FRANCE	*DF3QG
*LZ2HM 28 309,450 1193 35 118 *LZ1HB " 111,435 660 27 58 *LZ2GS " 91,396 257 31 118	*OZIACB A 441,408 752 71 233 *OZBNJ 357,760 867 67 253	*UA1AJW	F5LBL A 2,135,424 2367 112 386 F5AMH " 1,627,200 1962 100 350	*DK7ZH
*LZ2GTR 21 51,110 268 24 71 *LZ1UO 14 114,192 541 30 87 *LZ2ZY " 90,732 217 20 58	7 *0Z5DX 28 11,900 88 17 33 3 * 0Z7AEI * 2,838 50 13 20	*U1BA	F5BBD " 977,152 1415 86 266 F6CXJ " 258,359 513 61 178 F5RAB " 193,548 354 73 181	*DF6LQ " 639,963 941 75 262 *DL3ZAI " 565,547 898 85 282 *DF1ZN " 499,525 707 79 246
*LZ1UQ 3.7 63,084 695 15 69 *LZ1DM " 44,436 433 13 71		*UA3SAQ	F5SUL " 107,672 301 47 125 F5KDQ 28 245,077 715 35 122 (Op.: F5MVB)	*DL5ASE
CROATIA 9A8M A 1,922,564 2004 133 444 9A9A 28 2,272,950 4071 40 185	(Op.: SV5AZP)	*UA4ACP	F6CLM " 5,633 63 8 35 TM9T 21 919,620 2656 37 119 (Op.: F6HMQ)	*DL8SDC " 480,352 795 71 201 *DL4ZBC/P" 421,470 778 68 247 *DL3NBL " 371,196 635 92 286
9A3TN " 60,900 253 27 73 9A2R 21 447,744 1202 38 138 *9A3IJ A 1,036,512 1196 101 371	M5D A 3,625,020 3285 132 408 G3UFY 277,984 486 64 174	*UA4FER	TM4T " 874,057 2111 40 139 *F5ASD A 823,549 1303 79 274 *F8BJI " 594,540 790 76 248	*DL1LSZ
*9A2YC " 881,144 1121 104 314 *9A4SS " 655,814 734 98 288 *9A2NO " 603,908 674 102 326	G40JH 28 490,620 1381 37 119 M4R 21 319,431 1065 33 114	*RX3AEX	*F5DRD " 569,470 913 79 255 *F6FTB " 551,777 825 83 248 *F5SUY " 312,312 597 71 241	*DJ2OR
*9A6ACY " 251,600 746 42 158 *9A3SM " 162,564 428 60 168 *9A5Z " 110,622 326 59 120	G3NLY 14 968,064 2640 39 153	*RW1QF	*F5TVG	*DH2PL " 285,136 623 64 220 *DL1FZZ " 272,640 514 61 195 *DL7UXG " 272,583 627 62 217
*9A3CY " 74,691 385 36 93 *9A5BB " 28,615 135 25 72 *9A4KK 28 843,447 1743 37 146	3 *G3VAO A 1,015,644 1230 100 352	*UA1AQF	*F50HH	*DF5EN
*9A99F " 589,260 1367 38 145 (Op.: 9A3AG *9A3GW " 492,100 1101 39 146	*GGQQ " 173,019 480 56 175	*UA1ZKF	*F5RPB " 62,495 182 47 98 *F5MLJ " 61,787 244 39 98 *F6DZD " 56,848 200 42 110	*DL8HCO
*9A9R " 378,675 969 38 127 *9A2RD " 305,466 884 35 112 *9A5ST " 255,753 783 38 119	*G3JKY	*RA1TV	*F8AMV " 42,673 137 42 97 *F5JSK " 37,500 200 36 60 *F5DXN " 26,287 163 30 67	*DF2KD
*9A2TX " 21,592 145 15 36 *9A4ML " 16,933 128 23 36 *9A2L 21 344,871 1227 37 122	C *GØKDS 28 179,928 639 31 105 C *G4PCI " 170,856 577 27 99	*RA4HT " 307,116 996 36 135 *RU3WR " 102,942 471 29 85 *UA3VCS " 99,876 411 28 95	*F5BZB 28 616,137 1500 36 141 *F5TDK " 398,938 1018 35 138 *F5CWU " 167,640 621 28 92	*DL1MDH
(Op.: 9A2VJ *9A4RV 14 65,945 410 26 83 *9A2EU 3.7 138,303 1092 16 83	*GØKXL * 29,484 147 27 90 *MØBJL 21 199,206 764 33 120	*RW4WM * 95,496 396 29 109 *RA6AMA * 92,920 457 30 85 *RV3AH * 77,490 419 26 79	*F5JY 21 78,807 358 23 86 *TM9K 14 446,042 1505 37 129 (Op.: F5BEG)	*DL4FDM
*9A4W " 21,645 311 11 54 *9A5AVW " 9,593 197 6 47	*GØVQR	*UA4PAN * 76,600 533 23 77 *UA4LBK * 52,767 277 24 75 *RA3OU * 15,120 102 26 58	*F5HWB 7 6,811 80 10 39 *F2EE 3.7 47,920 519 14 66 *F5JDG " 27,150 165 22 53	*DJ2UB
CZECH REPUBLIC OK1EP A 1,980,630 1961 117 414 OK1DWC " 822,519 966 130 401	ESTONIA 190 702 411 71 200	*RW3DLX * 11,990 128 16 39 *RU3DD * 10,686 141 5 21 *UA3QJJ * 5,775 82 26 49	GERMANY	*DL6ZNG
OK2ABU " 346,464 634 76 212 OK1DVM " 235,759 456 69 212 OK2ZO " 39,102 297 21 36	ES1RA 144,744 140 58 130	*UA6ACK * 391 10 7 10 *RU4PL 21 740,124 2084 38 140 *UA3ADN " 475,794 1633 34 128	DJ4PT A 4,586,742 3317 144 438 DJ6QT " 3,751,704 2869 141 453 DL4NAC " 3,417,540 2498 141 477	*DK7FP " 74,899 248 38 83 *DL1EHR " 68,704 283 40 112 *DK4DS " 60,858 196 49 112
OK2RZ 28 1,794,729 3623 39 162 OK1AXB " 355,260 828 38 153 OK1ARI " 295,075 780 35 110	*ES4RD * 370,622 613 82 240 *ES4RG * 170,681 438 61 198	*RW3GB	DL2DX " 2,580,462 2060 132 397 DF6QV " 2,349,315 1891 120 435 DL8PC " 1,592,532 2127 83 196	*DL1DCJ
OK1KT " 142,000 448 35 107 OK1QM " 110,280 390 34 86 OK1RF 21 1,096,480 2491 40 136	*ES1QX	*RA3DNC	DL1NEO " 972,334 996 95 363 DL1AZZ " 956,592 1222 105 333 DJ8UV/P " 605,880 1184 80 260	*DL2FAR
OK2SAT " 182,700 643 34 116 OK1XC " 48,312 234 23 76 OK2OP " 9,520 168 17 51	2 *ES6C0	*RW6AH * 45,291 273 27 66 *UA3UMT * 9,381 114 10 43 *RA3WA 14 277,264 881 36 136	DF1DV " 550,020 889 80 276 DK8EY " 543,326 794 91 303 DM3HZN " 519,840 806 69 235	*DM50H
OK1RI 14 1,431,846 3334 40 171 OK1FCJ " 536,040 1809 40 140 OK1FC 7 39,678 282 22 80	*ES1MM * 6,440 43 24 32 *FS3RM 21 88 143 404 32 90	*UA3IKO	DK6CQ " 495,516 706 79 268 DL6UNF " 466,281 701 69 240 DF6JC " 377,134 704 59 143	*DL1HSR " 11,834 70 24 37 *DL4AUF " 10,318 85 26 51
OK1DX 1.8 62,530 855 10 64 OK1DJ " 1,395 41 5 26 OK1DWJ " 196 10 4 10		*RW10N	DL1TC " 368,736 450 85 249 DF9RD " 324,373 655 70 241 DL8YR " 309,333 546 69 222 DJ4QO " 294,021 521 68 205	
OK1DJ 1,395 41 5 20 0K1DW 1 1,395 41 5 20 0K1DWJ 196 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10	EUROPEAN RUSSIA	*UA6LV 3.7 63,140 426 24 86 *UA3SGA 532 36 4 10	DK6UW 238,238 483 58 180	*DL6OZ
*OK1MQY " 498,780 900 69 257 *OK2SGY " 407,175 865 76 229 *OK1JOC " 386,884 743 73 231	7 RM4W A 5,197,066 4064 139 463 (Op.: RW4WR) 8 RW4AA " 3,536,068 3317 135 461 RM3C " 2,628,444 2498 131 478	*TA1FA A 391,745 1200 51 84	DL3ZI " 226,642 509 73 226 DL4DCC " 182,280 421 57 188 DL8NBE " 178,976 385 69 203 DL6AG " 176,955 334 67 168	"DL4YAU 192,049 527 34 109
*OK2HI " 313,564 618 71 206	RM3C	*TA1BM 28 107,217 717 24 75 FINLAND	DK6HH " 169,684 319 62 174 DHØSP " 148,088 332 54 160	*DJ9RX
*OK2QX	6 UF3CWR 2,217,039 2692 127 402 (0p.: RV3BR) 8 RW1ZA 1,874,400 2021 124 404	OH6RX A 5,365,115 3804 142 453 OH5LF " 4,098,125 3278 149 476 OH1VR " 3,327,876 2611 144 438	DL6KVB/P 126,812 424 53 143 DL6AX 108,367 409 38 99	*DH5WB
*OK1KZ	5 UA3BL 1,489,011 1855 113 406	OHBBOT 1,011,593 1122 105 346 OHJJD 971,658 1005 111 303 OHIBV 814,500 1223 84 291 OHJJR 340,338 400 97 336 OHJBOI 234,240 446 59 197	DL3ARK " 102,508 278 54 142 DL4DRA " 98,325 310 49 122 DL5RBR " 90,508 264 50 137	*DL6UAM
*0K2VP " 23,016 107 36 48	B UA4LY 771,060 1182 88 338 D RA3ANI 503,025 882 75 278	UDIIV 101.901 200 44 00	DL5JMN " 90,000 302 39 86 DH9KR " 85,960 323 37 103 DL6DVU " 76,825 300 41 134	*DJØBX
*OKTAOU " 11,804 161 43 115 *OKTADU " 5,733 81 13 36 *OKZBHE " 4,400 49 14 30	6 RA3LBW 390,945 729 81 254 6 RK3DK 360,267 780 70 233 0 UA3AGS 318,091 582 80 251	OH9A 3,975 43 20 33 (Op.: OH1EH) OH4MDY 28 643,188 1909 36 146 OH3RR 188,500 597 34 111	DL7YS " 72,580 218 54 137 DL2MFP " 40,720 180 20 60 DK4QT " 35,650 121 37 78 DL5RMH " 24,521 156 34 79	*DJØMCZ 21 234,284 764 34 114 *DL3BRA 49,234 233 28 75 *DL4XS 515,410 124 17 50 *DL2RZG 12,636 104 18 36
*OK1KCI 28 194,700 636 32 100 (Op.: OK1CDJ	RU3FF 294,250 507 60 190 RU3DX 276,822 518 93 245 RU3DX 255,498 468 75 216	NH2KN	DL2AYL " 19,602 95 36 63 DL57V " 15,510 94 19 36	* DF2EY 14 5,720 54 15 37 *DK1HO " 2,520 26 16 24
1 ^UK2ZJ " 107.880 392 29 91	3 RN3FA	OH5NQ 470,415 1467 38 127 (Op.: OH5JOC)	DL1ARK " 10,260 58 39 56 DL2DSA " 4,032 33 38 73 DL9XW " 2,730 37 13 26	*DL8AKA 7 4,590 79 10 41 *DF9LJ 1.8 10,718 178 7 53
*0K1IE	RK6BZ 196,900 574 65 210 RA10X 183,651 468 51 170 RZ1AZ 169,276 330 55 147 RV3DAR 161,330 311 60 161	OH2BCD 96,000 583 31 89 OH8LQ 14 1,196,432 3137 40 148 OH6ZH 7 1,815 25 10 23 OH2HIII 37 50 234 640 17 23	DF8XC 28 754,572 2010 39 143 DLØSG " 501,354 1409 35 126 DJ5JH " 430,359 1047 36 131	GIBRALTAR *ZB2/W8DO A 2,050 158 23 59
*0K2PBG " 30,030 178 20 46 *0K1HRR " 25,756 227 15 32 *0K1FKM 21 188,917 591 37 126 *0K2DU " 90,272 543 28 84	2 RW3QF 92,984 240 63 134 56 RX3RZ 58,338 307 27 99	OH3UU OH2BYS 3.7 58,206 59,224 58,206 649 16 73 17 16 6 43 71 18 71 5,300 10 203 6 43 (0p.: 0H7UE)	DL2KUW " 140,504 342 39 143 DL2QT " 131,200 442 30 98 DK7AN " 87,740 337 28 79 DJ6GK " 59,670 236 35 100	*ZB2/AA3SN 21 134,640 1385 21 78 GREECE
*OK1LL	7 RUGLA 28 644,436 1570 39 165 3 RN3QY * 428,526 1282 40 131	*OH2LYP A 434,160 825 72 252 *OH2BPA 234,156 448 73 243	DL1IAO 21 1,023,975 2226 39 146 DK9WI 83,210 358 27 79	SV1DZB A 481,068 1181 89 233 *SV1DKL A 687,420 1195 91 289
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*SV1CID	*IZ2DAY		
*SW2A 28 550,293 1634 35 142 (Op.: SV2AEL)	*IK3ZBM	0 13 SP5AWY " 418 11 8 11 *Y05CY 7 130 SP7VC 3.7 149,904 1103 24 84 * Y02DF/	A " 406,560 772 81 271
*SV1CQN 21 175,275 938 29 94 *J42T 74,750 390 27 88	*IK8YFW " 31,808 155 36 76 *Z32KV 3.7 1,080 37	0 105 SP3GEM 1.8 86,516 1004 14 72 *Y09GJ` 5 19 *SP5DDJ A 1,015,452 1213 100 321 *Y04BSI	M " 24,240 124 39 62
*SV2BBD 14 1,271 29 9 22	*IV3KSE	*SP7LZD " 703,452 1194 79 293 *Y04AYI *SP9XWD " 690,426 1018 81 282 *Y08MI	" 18,905 95 25 70
HUNGARY	*IZVACG = 23,865 127 41 70 *9HØA 28 1,658,916 4119 4	9 211 *SP5IKC " 342,820 589 70 211 *Y04CIS	8 28 203,756 791 33 100
HG5T A 2,685,956 2439 131 480 (Op.: N9NC) HA3MN " 1,328,613 1286 113 376	*IK5ZTT	2 39 (Op.: SP6MLG) *Y02LDI	E " 50,373 251 24 63
HA3MN	*IK4WLP * 20,300 114 37 79 (Op.: 9 *IK3UMT * 13,708 61 34 58 *IK72/T * 13,002 101 32 32 MOLDOVA	*SP6GNJ " 263,588 506 69 205 *Y06AVI	
HASCQ 14 57,677 230 33 104 HASUU " 27,846 278 18 45	*IK2ZJN - 12,300 65 30 45 ER1IM A 343,577 531 5	4 40E SPIPLA 231,9/5 514 61 104 YU/AQI	F " 21,320 172 22 43
HG9X 7 422,808 1789 35 123 (Op.: HA9PP)	*IØ/Y06FUP = 11,200 112 20 77 ERØF 21 1,075,392 3136 4	0 152 *SP3NUN * 204.127 419 66 175 *Y09FDI	N " 1,232 33 11 17
HA7JTR 3.7 62,568 786 13 66 *HA1CW A 1,662,966 1878 108 431	*IK2XYI - 3,200 33 17 23 ERØN 14 561,756 1837 3	5 134 *SP9NS.I " 160.489 360 61 166 *Y05A.IF	R 21 67,663 329 26 84
*HA/WØYR * 440,748 1078 56 133 *HA8IH * 262,856 519 69 163	*ITCOZ	8 46 *SP9HOC " 139,300 272 00 131 *TOSAIL	" 2,460 61 13 28
*HA8AT * 117,952 274 59 135 *HA8A 28 296,257 729 37 132	*IZ3ALS 975 13 12 13 MONACO	*\$P9WUM " 123,256 374 63 154 *Y06BZI	L 3.7 34,090 486 10 60
*HG9VHF " 176,859 543 33 96 (Op.: HG9MET)	*IK8TEO 28 310,416 772 34 140 *IQØA * 199,120 586 31 121 *3A/K3TW 21 7,685 103	9 44 \$P6003 111,397 174 103 142 \$V02CJ)	X " 14,924 280 7 45
*HA3FT * 135,423 \ \ddot 466 \ 30 \ 93 *HA9MDP 21 \ 402,371 \ 1367 \ 33 \ 107	(Op.: IKØXBX) PAØIJM A 1,107,410 2016 8 12ARC 87,255 340 28 77 PAØADP 36,480 153 3	D 290 *SQ5RTV " 68,076 157 59 124 *Y08BG	D " 2,070 60 6 24
*HA5COK * 57,672 227 27 81 *HAØIT 14 425,712 1566 38 130		4 104 *SP9XUE " 60,590 162 48 98 99 41 *SP60PY " 59,428 221 47 119 ISØLLJ	SARDINIA A 144,837 395 54 155
IRELAND E181C A 1.515.746 1803 85 312	*IV3ZUU	6 74 *SP3XR " 42,692 427 46 137 ISØKEB 2 311 *SP9ELM " 41,409 125 50 79 *ISØIGV	
EI8IC A 1,515,746 1803 85 312 EI4DW " 1,233,728 1687 72 224 *EI4CF A 345,402 561 73 206	*IK5YJK	4 310 *SP7A	T " 48,300 200 41 109
ITALY	(0p.: IK50RP) *PA3ELD * 320,850 503 8 * IK3SSJ 3.7 14,160 233 9 50 *PAØRBS * 255,580 591 6	7 223 *SP6CXH " 33,269 163 35 68 *ISØSLF 3 197 *SQ9FQY " 24,096 152 29 67 *ISØ/I2A	R " 2,574 99 15 36 ADN 28 241,680 984 28 86
II4A A 1,978,399 2250 106 357 (Op.: IK4ADE)	*IØKHP 1.8 4,840 47 4 25 *PA2SWL " 231,660 425 7 *PA1BX " 105,225 306 5	3 224 *SP8TDE " 23,520 93 42 78 0 133 *SP1MVG " 19,557 82 40 119 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SCOTLAND A 3,347,180 3145 127 453
IK8NWK " 1,864,560 2775 100 308 IZ8CGS " 1,551,744 1672 100 284	*GJØNYG/P 28 340,900 1078 31 109 *PA3GZC " 101,150 352 4	4 142 "SPODHH" 16,885 212 17 64 6 129 "SP3MEP" 12,172 71 31 37 GM3BCL	(Op.: GM4AFF)
IZ4COW 1,379,853 1658 102 315 IK6JNH 937,984 1070 109 349	*PAØJNH 28 40,770 219 2 *PAØJNH 28 40,770 219 2 *PAØJNH 28 40,770 219 2 *PAØJNH 21 151,470 E90	4 66 "SP4MPA" 7,310 37 23 30 GM3RTJ 7 44 "SP9LCW" 5,893 92 25 40 GMØEGI	78,240 246 46 117 21 255,204 1000 29 110
IK4ZHH	*PAØRRS " 53,000 241 2	2 84 *SP9MAT " 3,744 31 19 29 *MMØBO	QI " 321,433 587 72 257
IK4MHB	LATVIA	2 72 *SP9IKN * 3,140 65 10 21 *GM4HC *SP6OPE * 2,205 23 13 22 *SP9W 28 607,547 1439 39 160 *GMØFO	
IK2YVI	YL3CW 1,023,708 2294 39 157 GIØKOW A 10,457,664 6375 15	5 589 (Op.: SP9HWN)	SICILY
IV3GCH	YL2IP	9 146 *SP5IVC " 179,333 569 32 105 *IT9CCU	
IZØBPI	YL2GD 7 32,752 272 17 72 NORWAY *VL2VA A 776 002 1085 88 334 LA7CL A 120,960 363 5	*SP5LCC " 89.548 280 31 91	14 273,208 1174 32 110 SLOVAK REPUBLIC
(Op.: I2UIY) IR1A	*YL2SW * 313,172 741 63 173 LA4EU 100,135 312 4	9 116 *SQ8AMD "	A 145,420 250 75 145 21 58,485 280 24 81
IR4W 28 1,095,780 2306 40 170	*YL2GQT 28 143,500 566 29 96 LA6VDA 80,800 264 5	0 150 *SQ4CUX " 21,375 161 17 40 *OM4KK 4 73 *SP800B " 9,494 103 16 31 *OM8DD	A 509,232 957 78 261
I8UZA	*YL2BJ 21 48,216 260 24 74 LA8GK 11,392 57 3 *VL2PP 46,354 273 23 75 LA6YEA 28 955,200 2005 3	9 160 *SP3VZY " 2,475 25 14 19 *OM7AG	186,720 568 50 190
IK2EGL 150,259 456 31 108 IV3BMV 105,250 418 35 90	YL3BZ 23,192 223 80 LA2MJA 158,067 605 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 54 (Op.: SQ9IAJ) *OM6TX	105,777 345 48 159
IK7QHS 96,683 411 30 79 IO5A 21 716,562 2230 37 117	LITHUANIA LA50FA 3.7 72,357 782 1	74 *SP9BBH " 195,818 711 32 110 *OM7VF	" 17,702 123 28 106
(Op.: IK5ZTW) IU2P " 699,600 1836 36 129	LY1CX	2 49 *SP7SEW 14 183,168 929 29 99 *OM3CD	DZ 14 19,392 200 13 51
(Op.: I2PJA) IO4L 7 302,853 1383 35 122	(Op.: LY1DR) *LA2HFA " 286,416 617 6		
(Op.: I4LCK) IR4R " 190,000 946 26 99	LY2DX	2 161 *SP6RGC " 10,948 155 15 53 9 161 *SP6RDV " 7748 58 18 58	SLOVENIA
(Op.: IK4ALM) IR8B	LY20X " 114,057 314 48 123 *LA7TN " 102,486 397 4	5 141 *SP2GNB " 7 598 100 13 45 \$578	A 6,504,693 4134 152 511 " 5,840,250 3748 140 510 28 1 568 392 3166 39 157
*IK2VFW A 787,032 1055 82 284 *IK1RQQ " 692,229 828 97 311 *IN3XUG " 636,030 836 93 289	LY2BET " 12,480 84 21 44 "LA2DKA " 15,015 142 2 LY3ZM " 3,480 71 9 31 "LA3TR " 1,232 24 1	12 *SP9ABU 7 32,178 272 17 77	28 1,568,392 3166 39 157 " 1,315,310 2675 40 166 (On: \$57DX)
*IK2SAI " 520 960 820 73 223	LY2GF 28 569,850 1510 38 136 LA4LG 20 20,000 140 2	1 4/ *SOACTS 3.7 10.250 156 8 47 CEGU	(0p.: \$57DX) " 1,120,038 2718 36 138 " 902,844 1920 39 147
*IK3PQG	LY3BX 7 111,027 835 26 93	CT1GPO A 1 181 029 1937 79 228 S5ØQ	" 897,298 2021 38 140 " 789,136 1965 38 134
(Op.: IV3KAS)	LY20U 12,936 303 / 49 SP9WZJ A 1,548,004 1774 9	CT1DVV " 1/5 080 320 53 127 S530	21 1,223,694 2942 40 146
*IK8DUI	*LY6M A 4,367,360 3162 134 506 P6AZT 1,348,872 1551 12 P6	3 393 CT1BOP 28 1,499,532 3561 37 149 8501	" 1,055,934 2272 40 158 " 1,006,953 2487 37 140
*IK7RVY " 170,984 590 44 90	*LY2PW " 980,001 1204 117 404 SP3BNC " 424,960 668 8	5 235 *ctocini7 " 77 gas 370 17 gg 55 15L	(Op.: \$53EA) 146,168 704 29 92
*IK6UBY	1 LYZLA 386,560 /84 /6 226 SPQH7W " 101 887 275 A	5 119 *CT2GRV " 41,246 203 24 58 \$53M 6 93 *CT1ESO 28 596,786 1690 37 142 4 131 *CT1EAT " 410 296 1481 33 105 \$51CK	14 824,180 2108 39 157 (0p.: \$5320) " 544,086 1664 39 142
*IZ2BKA	*LY3CY	4 131 *CT1EAT " 410,826 1481 33 105 S59A 2 116 *CT1AHU " 308,992 1013 29 107 S59A 3 126 *CT1GEK " 189 551 1151 26 83 S520	7 484,050 1764 39 136 " 390,555 1793 31 104
*IK2WZQ	*LY1DT " 163,900 676 49 171 SP2ATF " 47,144 203 4	3 126 *CT1GFK " 189,551 1151 26 83 \$520	(Op.: \$52RU)
*IK3SCB	*LY1FW " 58.275 246 40 135 COOFGU " 10.047 00 2	8 69 *CT4MS " 60.808 468 24 64 \$570	3.7 138,993 1152 22 85 111,922 978 19 88
*IK2RPE	*LY3KB * 36,309 175 36 97 SP9LDI * 6,336 120 1 *LY2OW * 15,456 174 21 75 SP6NVK * 4,784 40 2	0 23 *CT1FLD " 33.520 220 20 60 *S55A	07,490 320 23 03 138,993 1152 22 85 111,922 978 19 88 A 1,884,450 1800 121 389 " 1,825,140 1573 124 446
*IK2WYI	*LY2OW	5 21 *CT1FNT " 11,990 140 20 35 * \$54AA 6 19 *CT2GVG " 126 10 3 8 *\$57U	" 1,020,830 1091 102 343
*IZ2BHQ = 103,602 231 61 125	*LY2TZ 14 58,446 420 23 79 SP3KFH " 778,300 1820 3	9 132 *CT1ETX 21	561,353 673 93 284 X 298,800 870 50 130
*IK1DFH	*LY3NRP 3.7 1,632 61 5 27 SP5CPR * 369,848 914 3	3JZR) *CT2DJK 7 360 55 6 30 *S53DX *S53DX	" 105,099 393 43 116
*I8TWB	LUXEMBOURG SP5EWX	6 119 HUMANIA ^551MG 6 116 YO8BPK A 193,160 389 63 157 *S52GP	" 21,588 121 34 50
*IK4THF	LX1II A 1,163,170 1760 95 315 SP4WRF 5,280 70 1 LX2AJ " 1,090,674 1195 116 415 SP9LAS 2,808 30 1 LX1EP 771,060 1734 74 288 SP9CA 1,425 27	2 18 YO8DHD " 19,068 142 25 59 *\$58J 2 24 YO7GNF " 15,120 131 28 77 *\$57J 8 11 YO8GF " 6,270 42 22 33 *\$52OT	28 373,107 960 37 126 " 363,952 852 37 135 " 350,802 980 34 128
*IKØSTM * 66,120 167 56 134 *IZ1AWD * 57,447 188 45 72 *IK1ZOE * 56,581 273 40 97	LX1EP " 771.060 1734 74 288 SP9CCA " 1,425 27 LX2SM 21 280,779 889 38 135 SP7GIQ 21 1,056,396 2864 3 "LX1JH A 528,556 830 84 217 SN8V 14 719,992 2206 3	4 125 YO7GGT " 100 8 6 8 *\$58DX	" 350,892 980 34 128 " 192,150 572 36 114 " 149,942 445 36 110
*IK7WPD * 53,721 173 46 95	*LX1FC 14 51,992 382 23 74 (Op.: SP		
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*\$57KAA * 151,200 606 31 95
*\$55F * 44,304 545 12 66 *EA3TA * 36,000 174 34 86 *\$57NM0 1.8 26,488 503 5 51 **EA3AQL * 34,800 148 46 99 **S57NM0 1.8 26,488 503 5 51 **EA3AQL * 34,800 148 46 99 **S57NM0 1.8 26,488 503 5 51 **EA3AQL * 34,800 148 46 99 **S57NM0 1.8 26,488 503 5 51 **EA3AQL * 34,277 236 37 114 **HB9AA **A 420,900 795 66 210 **YU1FG 12 233,100 873 35 115 **CANACA **YU1FG 12 21,233,100 873 35 115 **CANACA **YU1FG 12 21,233,100 873 35 115 **CANACA **
SPAIN FEATG FEASOR FEATOR
EASHUX 1,307,490 1330 90 237 FEASHOR 21,112 129 32 84 EARLX 1,059,247 1291 88 301 **ECTALY 1 19,126 120 18 55 55 EATHEN 1,019,879 1422 92 279 **EAZBT 1 18,450 103 30 52 EATHEN 2,307,130 130 19 291 102 340 EALTH 2,307,130 130 19 291 103 240 EALTH 3,307,490 130 130 19 291 103 240 EALTH 3,307,490 130 130 19 291 103 240 EALTH 3,307,490 130 130 130 130 130 130 130 130 130 13
EATEBU 375,132 612 73 9 139 18 18 19 18 19 18 19 18 19 18 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19
EA3NB " 141,930 319 59 131 "EA5CZL " 6,076 62 18 31 UU4JUE " 52,104 177 42 114 VKZXN 28 387,208 1245 29 87 LU6ETB 21 1,034,604 2141 EA1BZN " 122,752 303 57 167 "EA4DKS " 3,285 52 13 32 UT7MD " 35,376 159 32 100 VK2KKD " 45,600 241 23 57 LU7HD " 513,756 1454 EA1HV " 105,492 381 41 108 "EA3GIP " 768 12 12 12 UX1HV " 23,800 120 29 71 "VK5EMI A 8,560 64 36 44 LU4HH " 374,850 975 12 12 UX1HV " 28,686 64 36 48 LU4HH " 374,850 975 12 12 UX1HV " 38,686 42 16 24 ** VKKEL 28 452,344 1455 31 74 LV4HH " 374,850 975 12 12 UX1HV " 28,868 64 26 42 ** VKKEL 28 452,344 1455 31 74 LV4HH " 374,850 975 12 12 UX1HV " 105,492 381 41 108 " EA3GIP " 768 12 12 12 UX1HV " 28,868 64 26 42 ** VKKEL 28 452,344 1455 31 74 LV4HH " 374,850 975 12 12 UX1HV " 374,850 975 12 UX1HV " 375,8644 1161 UX1HV " 374,850 975 12 UX1HV " 375,850 975
EASMM 883,974 428 41 137 EA1BAW 748 12 10 12 US6L 28 724,224 1739 39 153 *VK2ARJ 752,100 1267 31 69 LU7H 188,902 504 EA5EG 752,452 128
EA4FW " 6,890 41 26 39 "EA1CBX " 210,500 844 27 98 EO11 " 231,994 959 35 111 "YKTMOJ 21 112,665 491 33 72 LUIELY " 11,573 107 EA10FP " 1,736 24 10 16 "EA7AKJ " 130,500 558 26 90 EN5E " 201,356 1188 34 108 " YKSWWW 7 1,178 26 9 10 LTØH 14 684,111 1754 (Opt.) EA4EAP 28 981,522 2228 39 147 "EA5AAJ " 99,000 382 28 82 UT4FO " 57,694 350 22 69 "YKSTZ 3.7" 105 8 4 3 UT4FO " 57,694 350 22 69 "YKSTZ 3.7"
EA5YJ ** 440,594 1224 32 122 *EA7ASZ ** 79,386 397 24 77 U1904 121 213,381 742 U1904 121 213,381 2
EA750V 31,993 197 21 0 EA1BIN 53,958 349 23 71 UU2JZ 14 542,605 1581 40 145 9M8R A 8,662,544 4840 172 492 (10p.: W7EJ)
EA4OI " 126,862 537 31 106 "EA5CGU " 21,804 88 30 62 US2IR " 150,420 818 33 105 (Op.: JR3WXA)
*EA3GHZ A 1,182,954 1320 101 305 *EC3AJW 575,030 322 32 33 90 *EA3GEG 1,081,080 1225 88 302 *EA1AUM 49,938 320 22 65 *EA7HUM 49,938 320 22 65 *UR5YAL 40,000 100 100 100 100 100 100 100 100 10
EASELZ 807,040 1072 79 232 FEFTANC 23,680 195 21 59 UYSTE 157,050 471 49 176 KH6/SM6FJ 9,027 60 21 30 *LW5DX 299,208 865 *EASER 665,812 875 85 231 *EC3BA 12,975 126 19 56 *UT1II 107,260 295 51 122 *EASER 7 665,812 875 85 231 *EC3BA 12,975 126 19 56 *UT1II 107,260 295 51 122 *EASER 7 665,812 875 85 231 *EC3BA 12,975 126 19 56 *UT1II 107,260 295 51 122 *EASER 7 665,812 875 85 231 *EC3BA 12,975 126 19 56 *UT1II 107,260 295 51 122 *EASELZ 807,040 1072 79 232 FEFTANC 23,680 195 21 59 UYSTE 157,050 471 49 176 **UNSDA 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 865 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,208 117 **INDONESIA 12,975 126 19 56 21 30 *LW5DX 299,2
*EA3ASX * 435,750 562 83 267 *EC4AIV * 4,277 60 11 36 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 33,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 18,624 133 26 70 *PBZERL 2 34,499 676 32 103 *LUFICOZ * 19,112 550 *UTSECZ * 19,112 550 *UTSECZ * 19,112 550 *UTSECZ * 19,112 550 *UTS
*EASAYO ** 327.570 670 83 283 **EASAW** 140,958 579 29 94 **US3WO *** 144,392 440 34 104 **YBBBRI ** 31,301 125 41 90 ** UW7EG ** 78,570 39 ** EATAUR ** 302,512 603 62 197 **EASAWI ** 34,470 239 18 72 ** UR4QSG ** 46,593 322 25 68 **YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UW9DAH ** 50,052 213 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 **YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 **YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 213 ** UR4QSG ** 46,593 322 25 68 ** YC5SKR 28 44,436 322 26 43 ** UW9DAH ** 50,052 26 43
*EA1CCM * 278,108 607 68 183 *EA5DHK * 15,440 193 23 57 *URSURB * 38,814 334 21 58 *C13AGC * 274,625 765 41 128 *EA4AZJ * 6,370 59 20 45 *USSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *USSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *USSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSEXF * 5,244 62 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 20 41 *UWSWDL * 1,278 34 6 12 *VC6RAY * 13,786 80 2
*EA1BLI
*EA7AFM
*EAZRW * 171,550 311 66 169 SM3BIZ * 612,540 853 96 314 GWØRYT * 377,720 769 63 203 Construction of the construction of
*EA1ET " 141,375 339 56 139 SMØKV 21 287,407 907 38 129 YUGOSLAVIA *KHØ *KHØ **HØ **HØ **HØ **HØ **HØ **HØ
*EASMA * 106,343 233 65 128
*EA5AGP * 90,420 400 34 103 *SM4AIO A 708,849 1146 82 257 YU1RE * 313,998 798 36 141 *DUITJM 28 21,797 140 23 48 *SM2KAL * 325,796 621 79 237 *Y29W 21 887,684 2181 40 156 *DUITLKY 21 45,600 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 37 ZV3K * 1,463,280 2137 * 145,000 456 23 45 16 * 145,000 456 23 45
*EA1/V/5NI * 69,630 219 45 120 *SMØBDS * 122,838 331 51 126 YT7KF * 623,700 1907 39 123 *DU6/FZB * 29,087 228 20 39 PT2TF * 521,235 670 *EA7CWV * 66,624 154 49 143 *SM6G * 110,880 311 48 117 YZ9A * 614,592 1834 38 138 *DU1LHU 7 2,080 56 11 21 PP8KWA * 176,715 338 *EA1EB * 65,824 232 40 96 (Op.: SM5JBM) (Op.: SM5JBM) (Op.: SM5JBM) * COPE SM5JBM (Op.: SM5JBM) (O
*EA1JW * 60,929 211 53 138 854BX * 86,856 250 52 136 (Op.: YU75K)

ZX5J 28 3,086,148 5278 39 180 (Op.: PP5JR)	*CE8DGQ 28 137,410 666 23 68	K5DKH " OK2PLK "	37,169 137 36 73 35,235 211 30 105	EX8MBA " 81 5 4 5 VE1/W5AJ " 12 7 1 2	WR3Z " 3,137,868 1848 145 461 W3GM " 2,492,949 1475 144 463
PW2A " 1,665,252 3099 39 165 (Op.: PY2ZP)	COLOMBIA HK6KKK A 5,773,040 4036 137 423	GM4ELV " ON7CC "	35,072 246 33 104 34,125 192 34 91		N3AM " 2,309,720 1484 132 433 N3DL " 2,235,391 1318 133 484
ZX4Y 1,337,472 2958 33 139	HK6MKK " 108,261 257 58 149 HK3TAS 28 988,518 2707 31 103	UA9AX "	32,007 112 49 92	ASSISTED	KE3VN " 2,137,848 1416 129 433
(Op.: PY40Y) PY2SBY	*HK3JBR A 1,730,438 1784 100 286	UT5UUF " Y04AAC "	30,723 97 57 90 30,360 190 30 80	NORTH AMERICA UNITED STATES	NN3Q " 2,057,582 1302 137 440 N3MV " 1,911,800 1223 140 410
PY2AXZ 118,236 532 31 87 PY2FUS 81,200 216 34 111	(Op.: F2JD) *HK6PSG * 345,300 484 79 221	I1PLX " JN2FSE "	22,008 102 32 99 20.544 89 36 60	KI1G A 7,639,478 3403 169 622	W3CC
PS2WW * 66,200 336 25 75	*HK6BRK * 10,318 48 27 40 *HJ3PXA 28 756,897 1816 31 126	VE6GK " YL2MF "	18,615 111 39 46	KS1L " 5,913,960 3154 150 519 K1VR " 3,718,435 2077 145 510	N3ZA " 1,671,810 1071 136 434
PY3CGP 50,778 216 28 63	*HK3JJH 14 822,822 2170 30 113	GWØVSW "	14,065 105 27 70	N1CX	K3CT " 1,462,844 1037 126 388
PY40D 23,016 104 26 58 PY5JO 13,797 113 23 40	ECUADOR *HC10T A 6,006,550 3994 128 422	YL2TW " AF9J "	13,572 82 29 58 13,260 80 27 41	AA1QD " 2,305,626 1854 106 341	N3NA " 1,390,488 1006 122 384 W3IZ " 1,310,428 1007 111 365
PP5UA 21 796,700 2306 36 119 PQ5W 14 633,250 1799 37 133	*HC1JQ 28 994,224 2059 35 141	UAØSE " WØHEP "	12,948 118 18 44 12,104 70 27 41	W1RZF	K3CP " 1,285,676 944 123 388 K3AR " 1,217,202 847 117 394
(Op.: PP5WG) PT2HO	FALKLAND ISLANDS	RV6AF " UU9JQ "	9,017 92 16 55 7,575 88 17 58	W1NG	W3HVQ " 1,086,995 889 111 344 WT3P " 883,220 810 94 301
PP5AIM * 15,732 150 25 51	*VP80N A 17,550 103 30 45 GALAPAGOS ISLANDS	K6MI "	4,059 43 17 24	K1JN " 2,041,848 1366 131 417 N8RA/1 " 1,712,750 1204 122 405	W30V " 866,700 771 101 327
PP5UB 7 41,652 239 22 56 *PY2MNL A 2,477,020 2443 92 272	HC8A A 18,607,050 8638 175 595	UA3AD " PAØRBO "	3,984 47 15 33 3,526 53 14 29	K1JE " 1,562,224 1150 112 390 N1DD " 1,523,240 1005 130 435	K3SA " 628,419 560 99 318 K3SV " 545,761 534 105 296
*PY2YU " 1,573,311 1413 111 286 *PY2NY " 656,230 904 83 191	(Op.: N6KT)	XE1HKR " YCØLOW "	1,820 32 13 13 16 2 2 2	AA1V " 1,467,568 880 133 459	K3IXD
*PT2AW	GUYANA 8R1K A 9,121,163 5906 131 432	KP4FP 28 JA5GPJ "	574,788 2240 26 88 180,463 612 29 83	K1UO " 1,432,867 906 142 445 NZ1Q " 1,393,711 1072 114 379	N3GPU " 376,929 512 74 205 KU3X " 313,730 423 70 204
(Op.: PY2ZX) *PY2KQ * 507,180 857 70 167	(Op.: OHØXX)	SP3LWP " NØKE/KH6 "	171,879 511 35 106 146,854 541 32 69	N1NQD	N3UN " 311,691 401 89 232 W3EKT " 310,794 403 72 205
*PY2APQ " 193,965 413 64 129	NETHERLANDS ANTILLES	KA1PRD "	104,638 354 24 89	K1VV " 1,242,054 1030 110 341 K1RV " 1,237,584 1008 104 333	W3UL " 231,285 372 73 182
*PY2DJ	/ON4CFD 28 1,191,702 2843 36 113	LW3DX " YT1CS "	98,430 441 25 77 89,300 435 24 76	K1EO " 1,193,852 979 113 360 N1JP " 1,128,160 943 101 339	K3TG
*PR7FMT	PARAGUAY ZP6S 7 24,960 179 24 56	JA3LFK " N4IJ "	84,818 348 28 68 77,400 297 24 76	KK1DX " 1,109,660 804 118 373	N3HTZ " 70,720 198 34 102
*PY2RAF	(Op.: ZP5SAT)	YV5LVT " LY2HM "	66,038 366 24 65 54,202 327 20 62	K1AE	KT4W A 3,823,235 2187 156 499 W4JVN " 1,518,457 1105 125 374
(Op.: PR7AR)	TRINIDAD & TOBAGO 9Y4VU 21 2,013,050 3740 39 151	4NØX "	49,230 263 28 62	W1YK " 1,045,917 843 107 356 (Op.: N2YHK)	K3KO/4
*PP5MQ	9Y4NZ 14 1,429,672 2946 38 135	SKØMT "	(Op.: YZ7DM) 49,215 257 21 64	N1RLI " 989,573 830 103 364 W1LLU " 959,880 830 108 348	N4QQ " 449,228 571 88 238 KT3T/4 " 385,200 486 96 225
*PY2TNT	URUGUAY	LU2HNP "	(Op.: SM5CCT) 48,861 217 26 63	N1IUN " 818,854 799 87 296	WF3J/4 " 385,050 537 74 228 N8WRL/4 " 300,027 452 72 201
*PY6W0	CW3C 28 483,072 1321 31 105 CX3AT 53,284 254 21 56	0H5NHI " WH60 "	46,463 247 22 75 38,216 200 26 42	W1LP	K4BS " 203,574 296 73 186
*PY10N	*CX9AU A 647,088 941 93 179 *CX8BAE 28 174,734 727 26 72	W6YJ " CX/ZP5XF "	34,800 178 24 56 31,734 188 21 61	K1ST	AA4GA " 87,817 239 41 96 W4ZW " 71,576 188 68 116
*PY4LH * 40,530 166 41 64	VENEZUELA	JN6VBX "	25,312 149 22 46	K10Z " 601,758 655 73 258 K1TH " 570,688 709 73 223	KO4MR 28 104,404 216 34 138 N4NX 7 55.460 172 29 89
*PY5DC	YV5BY 28 513,636 1538 30 108 YV5IVB 21 1,678,950 3424 38 144	JA2LRD " EX8MFW "	24,106 135 21 48 22,338 159 12 39	NQ1K " 541,098 506 102 312 KG1D " 446,152 421 103 331	KD4RH " 51,198 197 27 79 N2BT/4 3.7 11,222 70 14 48
*PY3CQ * 20,698 139 24 55 *PY2AER * 17,885 85 29 44	YV6DBX 109,710 587 22 68 YY50IG 23,733 176 25 56	YU7AEC " N2JNZ "	20,176 170 17 35 20,040 114 13 47	KV1J " 414,668 471 89 243	NR5M A 1,410,981 1198 134 373
*PY2DBU " 16,317 84 36 63 *PY1AFS " 12,640 100 30 49	YW1A 14 977,906 2552 37 129	LW7DQW " EU6FF "	19,096 151 16 46 18,600 127 17 43	KD1KI	NA4M/5 " 1,352,190 1119 120 350 N5TY " 648,324 585 105 309
*PV8IG	(Op.: YV1AVO) YV5USB * 46,252 283 15 47	2UØARE " HAØGK "	17,024 135 16 48 16,646 172 15 26	N4XR/1	K4NR/5 " 229,333 307 86 213 W9DX/5 21 205,375 485 35 120
*PY2QI	YV5AMH 3.7 94,462 483 17 56 *YV5JBI A 291,164 371 95 237	SQ9IET " SP6BBE "	16,600 165 13 27 12,100 108 19 31	W1JK " 198,099 248 68 229 W1JR " 191,252 262 86 188	N6CCL A 810,135 639 125 334
*PY7BR " 783 28 9 18	*YW3B * 143,088 420 52 124 (Op.: YV3BKC)	CT1GFQ "	10,584 111 20 36	K1KU " 173,382 314 56 157 W1SRG " 126,735 239 63 150	N6IC
*PR7SD * 100 62 24 36 *PY1KS 28 962,822 1866 39 155	*YV5NWG 770 13 9 13 *YV7QP 100 159 46 100	EW6DX " IK5RUN "	8,850 89 15 44 8,060 58 21 44	(Op.: N1XYR) W1AY " 114,810 281 46 132	K6XX " 370,920 511 89 175 WA5VGI/6 " 311,080 401 93 187
*ZY4K " 628,370 1459 35 120 (Op.: PY4BK)	*YV2FEQ 28 201,500 775 30 100 *4M5I 125,640 632 19 53	OM7PY " ES5TX "	6,500 44 18 32 5,096 46 16 33	WA1ZYX " 105,600 234 32 128	WA6TLA " 156,773 275 65 146 W60AT " 141,219 243 75 146
*PY2NW * 397,528 1092 31 105 *PU2YDX * 383,380 1097 31 114	(Op.: YV5EMI)	YO3III " EC5ACA "	4,592 70 14 27 2,037 40 9 12	WV1M " 69,600 172 60 114 KA1GJ " 61,845 179 39 94	KF6BIR " 105,120 278 53 91
*PY2NKY	*YY4GMB * 66,483 310 23 60 *YV5EIL 21 100 80 18 36	N2VPK " Y08BGE "	1,568 30 9 19 1,564 67 11 23	WW1E " 42,721 129 28 91 K2BU A 5,907,918 2926 154 559	K6ACZ
(Op.: PY2WVT)	*YV50HW 14 255,132 1055 25 89 *YY50IA 7 148,599 747 20 59	SP2UUU "	1,216 26 6 10	K2NG " 5,440,030 2416 174 649	K6JAT
*PY2ELG	*YV5NCK * 94,900 465 16 57 *YV5DZQ * 23,256 136 18 58	DL2YET " ES7GT "	192 14 4 12	W2RE " 5,298,144 2855 159 564 W2GD " 5,001,930 2539 160 586	W6ISQ
*PP5CN	,	NA4CW 21 I4AFQ "	150,066 422 30 96 119,680 434 31 105	W1GD/2	W70M A 1,022,420 959 122 314
*PU2MXU * 67,771 403 26 75 *PY5BF * 65,520 226 27 85	QRP P4ØB A 2,018,688 1942 101 283	N7VY " OH7FF "	93,129 316 32 79 74,679 439 22 71	N1EU/2 " 3,259,485 1840 142 499 N2ED " 3,255,245 1982 138 457	K7BTW " 986,513 1099 104 237 K7GJ " 622,125 696 110 265
*PY2DDK * 57.510 304 25 65	(Op.: P43P) YT7TY " 1,180,635 1320 109 356	OK1GW " KH6/W8QZA '	68,907 300 24 79 63,058 286 28 54	K2TR	K7ABV
*PY5TJ * 52,894 232 25 81 *PY5ZT * 48,364 256 28 79 *PY2LED * 47,975 290 25 70	F5MUX " 1,060,878 959 99 370 I5NSR " 844,512 890 115 348	EA2CAR " 7K4QOK "	53,429 356 23 78 50,670 226 27 63	W2YC " 1,747,164 1200 127 455 K2ONP " 1,490,975 964 138 437	K6LL/7 " 328,878 642 54 144 K7TD 28 108,069 275 34 129
*PY2TST * 42,964 213 25 67	KQ3V " 843,720 776 105 290	UA3DJY "	30,959 248 19 64	W2GDJ	K7ED 21 167,495 443 34 105 (Op.: WAØRJY)
*PU2TES	RZØSR " 834,750 1082 80 238 LY2FE " 823,970 1199 81 314	JH3DMQ "	27,097 263 15 64 20,895 127 23 41	WB2WPM " 1,1/3,392 923 106 346	W7CT " 153,267 398 35 106
*PU2PDH	WT3W " 703,993 746 90 247 JA6GCE " 618,094 736 101 245	IK5WGK " EC4CUV "	9,860 78 17 41 9,638 64 15 46	KF20 " 974,400 655 136 424 K2LS " 961,704 824 110 346	N8TR A 4,086,628 2022 159 562 ND5S/8 " 1,680,585 1003 149 470
*PY4XYZ 13,179 80 24 45 *ZW8K 11,700 57 21 57	YU1KN " 535,150 921 91 294 JR4DAH " 503,316 702 86 193	W7/JR1NKN KJ5CI "	" 3,456 57 12 15 608 14 4 12	K2EP " 900,102 772 94 312 KQ2O " 893,761 978 81 260	KB3AUG/8 " 1,342,310 978 116 383 KD8FS " 552,979 547 105 296
(Op.: PS8ET) *PY2MOS * 8,112 208 21 57	EA3CKX " 448,818 596 90 291 LU1VK " 413,130 586 82 200	KR2Q 14 W6CN "	225,835 509 36 119 40,512 157 27 69	K2AJY " 889,812 794 106 356 K2XF " 843,410 717 105 332	K8CX " 490,468 602 84 230
*PU7ENW * 7,670 87 20 45 *PU2TVQ * 6,789 176 19 54	EA1GT " 373,730 778 63 203 YU1LM " 371,995 879 66 229	DL4RCK " SQ7BCG "	30,616 275 18 68 7,192 94 11 43	KD2KS " 836,640 763 107 313 W9NGA/2 " 818,764 744 101 327	N8SHZ " 431,460 520 92 248 N4ZR/8 " 128,520 220 66 144
*ZY7W * 5,150 73 13 37	UU4JO " 336,679 644 82 245	LZ3GM "	6,400 97 12 38	W2HCA " 625,086 632 93 270	KA8FSM " 28,336 104 37 75 AA8U 21 897,432 1803 38 145
(Op.: PR7FN) *PR7HT	DU3RCM " 325,128 622 68 116 HA7YS " 310,753 710 71 225	DL1BWM " KH6/KØEC "	5,060 92 10 36 4,410 39 19 26	AA2DY " 566,060 620 78 254 W4EN/2 " 548,977 613 85 264	WN90 A 1,443,316 1032 136 396
*PU7EEL 1,400 22 11 17 *PU8PYK 950 15 10 15	US6EX 301,396 696 63 239 SP5FKW 297,480 400 78 190	SP9EH "	(Op.: NØKE) 3,534 45 12 26 2,412 46 7 29	K2QMF	(Op.: W9IU) KB9BUM " 919,485 812 101 316
*PY2SOM * 817 21 10 9 *PY2DVD * 616 54 11 17	WAØJYC " 273,182 504 80 167 UA4YJ " 266,409 533 65 232	DJ1VQ " N4EUK "	2,412 46 7 29 2,220 31 11 19	W2YG " 370,036 395 92 224 K2ZP " 341,310 447 72 238	W9GIG " 485,078 507 91 283 KG9N " 75,654 186 60 102
*PY2EPC	VE6BF " 232,675 397 69 158 S59D " 226,806 549 74 235	JHØNEC " OK2PCN 7	425 16 6 11 6,360 122 8 45	N2WKS " 340,544 418 76 237 N2TTT " 324,996 446 76 242	NRØX A 1,871,907 1166 140 439
*PU7EUA	WA3NKO/4 " 160,962 311 46 147 N1TM " 123,690 240 54 136	IK8HOE " DAØFF "	1,457 50 5 26 84 11 3 9	N2WK " 288,306 378 79 202 N2KJM " 282,388 450 50 177	N5IN/Ø " 1,743,500 1257 132 418
(Op.: PY2RIK)	I3MDU " 116,088 330 42 126		(Op.: DF2FM)	W2LK " 236,014 425 50 149	WØTM " 1,663,086 1387 117 321 KØKX
*PS8HF " 6,256 69 14 32	UA10Z " 113,190 370 61 170 DF2WF " 103,208 327 44 89	YTØT 3.7	(Op.: YU1YV)	AA2D " 216,006 324 76 202 W2ASS " 129,426 329 67 155	KTØR
*PS8NF 14 17,987 117 19 51 *PY2ESZ " 17,472 108 20 44	N8XA " 74,382 338 69 176 W9PNE " 81,713 211 48 111	SP4GFG " SP3J "	12,648 231 7 44 3,960 122 4 29	WK2H " 66,304 194 27 101 N2VM " 19,992 88 34 68	KØOB " 666,050 743 95 251 KØIW " 485,440 554 90 230
*PR7AYE * 6,384 52 13 35 *PY2TI 7 216 12 5 7	OK2PP " 81,106 315 58 156 UAØKCL 71,504 250 49 60	SQ5ABG "	(Op.: SP3NGB) 1,620 53 5 25 714 62 5 29	NA2X 28 91,601 232 30 09	KZØC " 423,738 494 101 241 KØIL " 337,269 455 81 210
*PY2TI 7 216 12 5 7 *PY3CEJ 1.8 70 10 2 5	NM1K 65,380 171 45 95 N6ZS 58,968 137 51 111	OK1IWN " KH6SQ "	714 62 5 29 594 23 5 4	K3WW A 6,310,200 3013 168 612 N3RR " 5,901,750 2863 161 589	KIØLO " 69,368 150 58 126 KGØUS " 59,664 173 44 88
CHILE XR1X A 1,956,385 2072 104 269	4X6DK " 58,938 177 34 80 DH2UL " 49,764 189 39 93	OM6ACW "	(Op.: W8QZA) 494 27 4 15	W3EEE " 4,997,877 2845 136 505	KKØDX " 58,282 140 54 107 KBØVVT " 41,724 147 40 74
(Op.: XQ1IDM)	NQ7X " 49,432 163 56 92	SM5CCT " YL2GUV 1.8	323 21 3 16	AA3B " 3,623,368 2045 137 486	KØINR " 18,304 92 36 68
CE8EIO " 1,885,500 2400 85 215 CE6ABC 21 253,764 855 32 94	LU1HN 47,847 189 47 76 JRØBQD 42,837 149 52 70	YU1UA "	3,360 108 3 29 420 33 5 15	K3PP " 3,443,162 1777 160 546 K3NZ " 3,204,855 1712 156 531	KGØUT " 7,308 48 24 39 WØCP 28 79,050 279 29 73
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BP2K	BARBADOS A 3,250,497 2685 115 404 (Op.: 8P6SH)	GERMANY DJ2YA A 4,239,585 2658 140 505 DF4RD " 3,530,555 2083 148 597	CX5X	URUGUAY 21 1,151,884 2309 39 142	VE2CMH VE2CQ VA2RHJ	190,440 406 50 157 69,806 233 46 121 29,610 367 13 32	UK I ZC4ATC	BASES ON CYPRUS 6,174,560 3941 127 46
/E5CB /A3MM	CANADA A 749,340 1238 92 184 21 1,285,766 2381 39 154	DL70N	SIN	MULTI-OPERATOR IGLE TRANSMITTER	TI5EBU	COSTA RICA 8,879,619 6038 150 473	4U1VIC	EUROPE 4U-VIENNA 9,078,627 6095 163 63
/E1RX	" 141,564 561 22 72 PUERTO RICO	DJ9MH 881,280 865 122 422 DK3GI 862,750 748 129 364 DL1YFF 785,583 960 108 349	K1YR	NORTH AMERICA UNITED STATES		OMINICAN REPUBLIC YY 8,712,900 7007 124 416	ZA/S57AW	ALBANIA 4,416,875 4116 130 49
KP4WW	28 1,174,986 3237 34 128 AFRICA	DL8AAM	AA10N K1ZO N1AO	5,470,850 2820 151 574 4,085,406 2149 154 557 2,652,903 1583 146 487 2,216,780 1531 124 418	KG4CM	GUANTANAMO BAY 2,509,033 2815 103 280	0E5T	AUSTRIA 4,201,782 3290 132 48
5X1T	UGANDA 28 2,812,630 4517 40 175 (Op.: ON6TT)	DLØEK * 688,176 819 97 335 (Op.: DL1GST) DL4DXF * 584,412 737 96 276	K1GW K1NU N1AU	2,139,864 1569 126 421 2,035,192 1342 118 418 1,838,609 1260 117 404	FM5BH	MARTINIQUE 9,754,160 6471 148 516	OE1W EW1WC	231,840 579 64 21 BELARUS 646,760 1695 66 23
JJ3ZZE	ASIA JAPAN A 2,206,555 1992 120 289	DL1QW 474,376 656 90 304 DF5ZV 439,310 611 96 298 DL4RDJ 361,504 634 69 217 DL9NDV 356,590 521 81 257 DK4VW 260,392 395 79 190	N1WK WA1RR W1BK W1CC	912,939 844 99 294 746,916 897 104 298 609,336 511 94 340 46,228 190 17 74	6D2X XE1X XE2/N7R		OT9L OT9C ON6DP	BELGIUM 8,378,370 4562 167 67 6,511,455 4614 142 55 4,243,818 3117 129 47
JQ1BVI JA9XBW	(Op.: JF3PLF) " 1,914,660 2108 116 280 " 856,516 838 120 294 " 854 784 926 93 243	DF2UU	W2A N2NU K2UA	10,793,916 4669 169 675 8,760,304 3802 177 679 5,214,342 2665 157 557	VP2MCS	MONTSERRAT 7,078,230 5557 128 430 NICARAGUA	OT9K OR5EU	3,610,289 2903 125 45 429,368 1152 56 13
I R4QZH 7L4IOU IJ3VPY	" 854,784 926 93 243 " 371,091 497 99 188 " 327,075 464 85 182	DK7ZT " 19,712 97 36 76 DF9ZP 28 1,278,963 2728 39 162	W6XR/2 K2XR W2CG	2 4,712,520 2784 154 527 4,163,544 2284 154 539 3,373,488 1898 141 507	YN2EJG	1,408,440 1833 89 241	T91CMN	NIA-HERZEGOVINA 301,637 861 66 22
JJ6TYG J a7owd J r8ogb	44,275 117 53 99 28 885,720 2018 38 127 286,713 865 31 92	DL8UD	W2LC K2OWE N2SS	2,205,144 1711 119 379 2,117,808 1344 143 473 1,955,850 1376 119 391	J6J	ST. LUCIA 5,204,892 4231 121 395 SAINT MARTIN	LZ2K	BULGARIA 1,535,144 1972 113 39
IHØALB IA6AVT IA8JCR	55,834 252 27 61 35,864 208 21 44 33,028 146 28 64	DJ8FR	AE2F N2LBR W2RD	1,599,612 1185 127 421 1,067,652 915 101 322 806,538 672 118 340		M 4,242,700 4766 102 304	9A7A 9A10 9A4U	CROATIA 7,707,948 4673 170 63 2,437,800 2687 111 31 1,344,607 1767 113 33
JQ3UDL JN3DRB/3 JR9NVB	" 92,638 300 31 90	IRELAND EI8IR A 2,365,090 2623 112 343	WB2KH KE2HG K2SB		VP5R VP5DX	13,492,710 8241 151 575 11,411,148 6918 161 571	9A1CMS	398,145 803 60 23
IG1JQJ IA1KVT IL7BRH IA3LDH	" 52,020 249 25 65 7 19,276 114 24 50 " 18,251 111 20 48 " 16,756 105 25 46	EI6FR 28 332,424 994 33 129	W2GSB NE3F W2UP/3	714 20 8 13 4,099,268 2464 151 523 3,937,080 2393 136 466	NP2B KP2D	.S. VIRGIN ISLANDS 4,946,762 4514 127 366 1,288,127 3085 63 136	0K5W 0L5Q 0L2A 0K1KIR	9,041,883 4749 178 7: 3,481,842 2957 141 4: 1,090,560 1375 103 3: 920,010 1305 102 3:
IG3DOR/2 I Y9QJ	2 " 2 1 1 1 JORDAN A 2,299,374 1781 122 340	IQ2A	WU3M W3MF W3DXR	3,277,365 1993 141 496 3,027,310 1731 144 494 1,466,976 1188 111 333		AFRICA CANARY ISLANDS	ОZ9КҮ	DENMARK 4,094,912 3507 140 4
IPØF	KAZAKHSTAN A 986,748 1176 95 262	IY4W 28 574,692 1426 37 129 IN3ZNR 21 708,624 1832 36 132	K3DI K3BSA K4ISV	932,514 823 97 329 740,316 744 92 290 6,410,808 3206 179 628	EA8URL	1,713,753 1827 93 298 MADAGASCAR	M1P GB3RS	ENGLAND 8,106,700 4715 148 5 3,450,664 2945 130 4
	(Op.: UN7FK)	I8NHJ 14 319,185 1006 39 134 IC8WIC 3.7 38,304 581 11 61	N4TO W4MR W4WS	6,261,284 3049 162 604 4,621,248 2667 145 494 2,464,020 1684 132 453		1,677,336 1582 107 269 MADEIRA ISLANDS	G3B G1Y	2,455,225 2088 117 4 2,066,134 2206 90 3
нøv	EUROPE ALAND ISLANDS 21 1,251,328 3134 39 149	NETHERLANDS PA3FNE A 1,112,412 1379 105 387	K4HA W4CAT K4RC	1,610,077 1243 118 351 1,470,840 1149 128 382 968,691 997 100 317	CQ9K CS9Z	12,440,610 6579 155 531 1,416,987 1773 70 227	M2H M2G G4WAC	1,558,152 2238 76 2 1,120,290 1664 78 2 121,794 373 48 1
	(Op.: OH6LI)	PA3EWP 28 1,126,170 2101 39 176 POLAND	KR4TG AD4ES KU4RG	495,600 537 93 257 323,876 521 76 193 287,574 397 77 210	5H3US	TANZANIA 6,777,528 4617 133 401	M5W GØEYO M4T	49,742 235 32 33,988 171 32 13,446 132 25
E1WEU E2CZN	A 645,192 884 92 320 " 235,115 439 77 218	SP3KEY 28 1,840,811 3484 40 177 (Op.: SP3RBR) SP4XQN 3.7 6,627 200 6 41	W4PR0 K5MR	141,282 294 59 108 6,874,863 3157 181 650	UA7A	ASIA ASIATIC RUSSIA 9,318,515 4764 169 604	GØRAF	8,232 110 14 ESTONIA
Т9Т	BELGIUM A 7,048,074 3862 159 600 (Op.: ON4UN)	SLOVAK REPUBLIC OM5A A 1,901,718 1849 123 436	AA5NT N5YA N1LN/5	3,714,855 2312 151 530 2,172,870 1476 148 482 1,835,350 1378 133 417	RF9C RK9JWV	8,675,844 4091 165 624 2,842,020 2436 128 385	ES2X	7,691,600 4825 170 6 1,901,744 2102 114 4
)N4LCE)N4BBW)N4CAS	896,730 1079 97 329 198,440 424 69 173 28 101,310 351 28 82	(Op.: OM3LA) OM3IAG * 1,058,376 1598 100 322	W5YM N5KB KK5CA	1,341,400 1116 123 352 925,932 809 107 331 27,225 113 33 66	RK9CZO RK9TWA RK9JWJ RK9CYA	1,461,571 1122 118 381 949,586 1078 85 289 571,200 807 77 223 8,496 75 16 43	RU1A RM6A RW4LYL	JROPEAN RUSSIA 9,530,016 4997 182 7 8,007,125 4890 177 6 5,042,448 4201 156 5
Z9F	BULGARIA 21 85,760 385 33 101	\$\$\frac{\text{SLOVENIA}}{\text{S56A}}\$\$A\$ \frac{1,946,005}{327,810}\$\$537 \text{79} 215\$\$	W6EEN KG6OK K6ZM	3,303,720 2163 157 464 2,708,630 1817 155 462 2,445,786 1931 148 383	TA2KB	ASIATIC TURKEY 1,927,125 2011 70 305	RK3AWE RX3RXX RK3AWV	3,564,000 3678 128 4 2,402,490 3101 125 4 2,294,064 2587 125 4
A5Y	CROATIA A 4,827,020 3432 161 579 (Op.: 9A7W)	S50R 28 764,001 1730 38 143 S51TA 21 1,000,073 2472 40 139 S5ØS 556,512 1656 39 137	W6YX K6LY W6II	1,885,590 1460 134 377 1,474,070 1230 139 354 262,340 407 76 184	4K7Z	AZERBAIJAN 982,488 1201 65 247	RK4WWA RK4HYT	2,003,431 2444 131 4 1,151,646 1470 114 4
A4KA A2U	3.7 8,635 138 7 48 1.8 27,654 473 7 59 (Op.: 9A3ZA)	S57M 1.8 66,576 827 11 65 SPAIN	NK7U KC7V	4,743,804 2892 167 480 2,845,800 1940 149 463	B4R	CHINA 1,187,082 2254 102 249	RK4FWX RK3QWM RA3AA	916,160 1439 91 3 840,608 1407 103 3 653,844 1309 78 2
K2FD	CZECH REPUBLIC A 3,348,360 2108 149 561	EA7AGW A 3,071,410 2809 120 385 EA5BM " 2,470,736 2092 140 474 EA5FID " 204,512 335 88 220	K6KR/7 W7IG K7ZL	915,860 764 125 335 697,656 916 99 229 630,819 731 96 227	BY1PK B9G BY2JCY	349,058 1385 56 122 211,008 818 73 119 46,566 551 44 73	RK3YYM RZ1AW0 RZ4PZL	400,000 941 67 2 389,400 1098 62 2 261,126 557 70 1
K2ZI K1DG K1AVY	" 1,539,145 1400 128 441 " 563,616 789 77 211	EA5FID 204,512 335 88 220 EA3EJI 21 202,377 623 36 125 EA3IN 14 295,596 970 35 126 EA3ALV 7 32,476 277 18 74	AB7RW W7JQ W7PXL	150,722 323 63 124 91,784 224 53 96 81,696 210 50 98	P3A	CYPRUS 17,321,994 7913 164 675	RK3AWB RK4HWZ	261,126 557 70 1 126,480 412 51 1 125,664 437 51 1
K1DIG	1.8 50,960 818 7 58 DENMARK	SWEDEN SK3LH A 2,425,151 2311 122 401	K8AZ K8CC	8,356,205 3684 177 668 7,161,844 3496 170 602	P39P	3,830,310 3499 101 337 INDIA	OH1F OH7M	FINLAND 9,574,620 4956 179 7 8,069,039 4688 170 6
Z1FAO	A 88,068 222 46 110 ENGLAND	(Op.: SM3WMV) 8S5A	N8NR KD8SQ NK1K/9	5,672,494 2719 168 593 369,622 516 85 232 4,916,067 2709 161 538	VU2PAI	3,164,106 2261 134 439 JAPAN	OH2BA OH6KSR	2,498,985 2383 121 4 843,827 854 123 4
	A 1,029,990 1072 97 320 UROPEAN RUSSIA	UKRAINE UTØU A 4,219,046 3516 130 487	KD9ST W9UR K9NR	1,781,229 1240 137 400 1,140,156 1162 104 287 1.060,900 1035 93 319	JH7PKU JE4VVM JA7YAA	6,651,928 3828 165 469 6,113,926 3621 152 485 5,311,368 3195 158 481 4,648,889 3333 148 429	TM2Y	FRANCE 14,703,147 6386 181 7
IA4HTT IA3AJ IA3AB	A 2,834,610 2942 126 444 " 1,956,456 2118 121 401 " 1,846,800 1958 109 323	(Op.: UT5UDX) YUGOSLAVIA	K9IU NØIJ	449,084 557 81 230 2,374,344 1592 141 447	JI2ZJS JJ3YBB JE6ZIH	4,021,524 3512 137 370 3,644,073 2723 141 402	TM1C TM1T TM1W	11,304,956 6171 172 6 6,570,808 5113 135 4 5,128,000 3550 141 5
Z3AA IA1QV IA3AUM	1,210,650 1521 111 414 886,950 1316 99 339 809,840 1235 90 292	4N1A 3.7 55,352 701 11 63 (Op.: YT1WA)	KØLIR KKØSS KØGQ	1,742,250 1402 130 375 1,532,214 1488 111 303 1,333,848 1205 122 325 U 374,010 574 76 197	JA9YBA JF6ZPH JI2ZEY	2,642,052 2111 133 364 2,117,503 1910 123 308 1,891,305 1681 133 344	F6KDF TM8A TM8F	4,577,466 3665 139 5 4,191,876 3580 135 5 3,921,509 3063 128 4
IA3AP IU6LC IA4RF	" 236,622 490 70 156 " 89,082 261 60 142 " 78,585 292 52 143	OCEANIA	KCØCW	U 374,010 574 76 197 ALASKA	JA6ZLI JA1YFG JA8YBY	1,761,315 1522 123 312 987,690 1182 98 232 669,260 946 99 208	TM1V F5KDC F6KHK	3,528,315 3609 107 3 1,366,154 1773 90 3 875,425 820 121 3
IA4LDP IA6LP I N3Q0	" 36,322 152 37 90 " 15,960 81 34 50 14 675,260 1900 40 150	GUAM KH2/N2NL A 7,619,776 5156 151 385	KL7Y	9,549,554 6075 166 492 CANADA	JM1ZTI JA3YPL/	3,315 51 32 33	TM5KP TM5L0 F5KEM	685,440 1285 75 2 420,420 983 64 2 203,682 478 63 1
H6NIO	FINLAND A 2,836,024 2252 127 441	SOUTH AMERICA	VE3EJ VO2CQ VE6JY	14,770,600 6198 187 733 9,785,300 5455 147 553 7,825,662 4855 159 530	UPØL UN5G	8,101,951 4726 148 541 1,656,192 1770 100 284	DFØHQ	GERMANY 11,384,976 5333 174 7
) H3BU)H2VB)H2B0	28 497,448 1333 38 151 87,240 202 37 133 1.8 6,860 130 6 43	ARGENTINA LU6QI A 7,875 51 29 46 BRAZIL	VE6SV VA3SK VE5DX	5,668,750 3874 155 470 5,194,044 3379 145 476 5,175,456 4788 137 391	EX9A	KYRGYZSTAN 4,059,328 3624 108 368	DHØDX DF3CB DLØGL	5,523,768 3483 143 5 5,076,016 2965 156 6 1,391,250 2155 91 2
M2V	FRANCE A 5,795,370 3693 140 490	PS2E A 917,007 1261 83 190 (Op.: PY2EX)	VE2CSI VE6AO	5,057,600 3996 129 416 2,384,181 2954 116 273 1,927,752 2390 107 269	BV2B	TAIWAN 592,626 1735 81 177	DKØMM DH1TW DL6PK	1,361,772 1376 108 3 1,312,610 1581 103 3 989,312 1073 109 4
5RZJ 8CIO	(Op.: F6GYT) " 4,277,460 2865 143 517 " 500,950 645 105 325	PP5JD 28 979,020 2087 36 149 ZZ2Z 21 410,010 931 36 122 (Op.: PY2YP)	VE5RI VE3DC VE3HG	700,138 887 110 284 510,040 738 79 232	HSØAC	THAILAND 1,998,547 2784 123 308	DN1MA DL8EAD	511,231 672 87 2 246,206 581 64 1

DLØBKR DJ2000 DLØHNF	136,136 57,720 46,464	422 260 257	37 40 37	117 80 95	HB9H HB9RL	SWITZERLA 6,263,568 5,208,060	4092 3692	141	519	NØAX/7 KB1ZQ/5	248,670 62,729	375 169	85 53	185 96
SV1AFA	GREECE 666,864		94	302	HB90K	1,143,933 UKRAIN		80	319	KL7RA	ALASKA 13,326,144		156	452
MUØBKA	GUERNSE 5,370,750		143	539	UT7Z UU7J EN5J	8,521,481 3,462,627 2,367,900	3556		586	V26B	ANTIGU/ 32,750,664		180	736
TF3IRA	ICELAND 2,112,175)			EM4E US8U	2,085,135 1,018,710	2685 1509	120 97	435 365	VY2SS	CANADA 22,538,819	11246		
IQ4A	ITALY 13,688,588				UX8IXX UT3IZZ UR4MWU	330,064 186,208 166,772	1845 534 508		309 201 192	VE6FI VE3BUC	7,737,660 2,171,868	1834		
IQ2X IO2A	6,736,472 6,634,410	3995 3877	157 156	615 631	UT4UWL	35,235 YUGOSLA	223		113	J3A	GRENAD 23,073,536		158	614
IK1SLE IO2L II2Y	3,194,269 2,448,004 2,444,904	2370	111	415	YZ9M YZ7A	2,506,565 901,470	1970 1273	100	353	XE2DV	MEXICO 5,877,560		145	375
1080 1Q5B	2,418,768 1,484,610	2313 1849	133 107	461	YU7AJM	393,700 OCEAN		71	239	J6R	ST. LUCI 9,260,394		129	430
II1R IR3P II4I	1,453,760 1,141,672 744,276	1289 1047	121 80	430 258	VK4UC	AUSTRAL 4,961,152	IA	125	323	TURI VP5T	(S & CAICOS 15,735,408			
IK1SLP IU2C IR1S	611,550 490,710 369,512			305 127 148	VK6ANC VK4IU	896,442 715,065		91	227 195		AFRICA AFRICAN IT			
IZØBEE	231,594 LATVIA	432		288	T88WX	BELAU 6,671,714	5343	126	320	IG9A IH9P	61,215,336 32,535,454	20314		
YL4U	5,637,757 LITHUANI		163	588	AH2R	GUAM 9,616,144	5977	148	436	EA9EA	CEUTA & ME 40,590,074			759
LY2ZZ LY3MR	5,621,538 3,983,966	3767 3022	158	585	7AØK	INDONES 2,671,326		106	276	CN8WW	MOROCC 73,194,876		198	900
LY20M	1,708,022 LUXEMBOU		108	406		ARSHALL IS 3,990,510	LAND	S			ASIA			
LX2LX LX9SW	3,781,140 2,620,392				ZL6QH	NEW ZEAL	AND			B1Z	CHINA 212,745	1017	80	115
PA7MM	NETHERLAN 5,724,432	3805				118,248 PHILIPPIN	ES	25		5B4AGD	CYPRUS 8,073,660		147	511
PI4CC PI4ZLD PI4TIL	4,236,876 1,037,120 351,624		101		DX1DX DX1RN	743,274 130,650		80 52	158 78	JA5BJC	JAPAN 15,917,102	7581	178	600
PI4WAL	201,586 NORWAY	374		170	S	OUTH AMI Argentii	_	A		JA3ZOH JA1YPA JA7YRR	13,081,175 8,147,420 6,429,456	5055	156	464
LA8W	7,516,704 POLAND	4805	154	587	LU1NF LT5Y	3,466,080 1,075,824	2958		343 172	JA6ZPR JN1YUU	3,384,937 46,203	3511 188	143 42	378 69
SN2B SP9PR0	12,294,892 2,954,061	5999 2576	125	438	PT2CM	BRAZIL 1,573,600	1946		256	JA7YFB	14,790 EUROP	129 F	34	53
SP9KDU SP3KPN SN6U	262,614 187,850 138,736	647 543 415	50	189 171 160	ZV5V PW5D	122,550 11,988	354 69	64 33	126 48	OT9A	BELGIUN 22,481,380	И	174	760
SNØKAO SP9KGG SP9KJU	75,665 73,139 13,280	278 291 68	53 39 33	132 70 50	CE3F	CHILE 8,995,350				OL5T	CZECH REPU 4,931,388		150	606
CS1A	PORTUGA 2,199,744	۱L			CE4TA CE3AA CE3PA	1,749,622 888,468 702,477	1211	90	233 204 190	OL7W OK1KQH	3,867,399 1,191,680			
CT1EGF	416,835	765		223	NET PJ2C	HERLANDS / 9,885,330			402	OZ5WQ	DENMAR 1,713,204		113	409
YP3A Y09KPD	ROMANIA 1,739,450 88,550		114 27	361 88	FJZU	PERU	3700	147	432	M6T	ENGLAN 29,338,624		188	836
IQ9K	SICILY 1,929,098	2832	82	280	4T4WW	1,559,280	1790	111	245	RW3WW\	UROPEAN R V 590,238			285
IT9FXY	1,702,835 SLOVAK REPI	1831	111	374		ULTI-OPEI .TI-TRANS			D	OH2U	FINLANI 20,479,356		189	792
OM8A OM5M	11,005,979 9,239,280	5981 5181	161 166	677		ORTH AM	ERIC		n	DF6QC	GERMAN 1,738,964		100	378
OM3A OM7M	7,539,000 3,042,900	3067			KC1XX K3LR	UNITED STA 25,963,386 25,709,664	10194			SV1DKR	GREECE 2,424,908	•		
S51NM S59SL0	\$LOVENI 3,828,624 282,924	2787			N2RM W3LPL	24,430,230 21,168,659	9380 8512	194 191	796 786		HUNGAR	Υ		
EA1EEY	SPAIN 5,691,504				K9NS N3RS K1XM	15,380,904 13,823,641 12,561,696	5903	174	697	HG6N	16,444,610 ITALY			
EA5URP ED3MM EA5FKX	5,478,343 2,607,720 2.312.112	3871 2605	131 127	486 493	W3PP NQ4I K1TTT	11,287,672 11,088,792 10,655,400	5485 5238	171 183	665 675	I K30II IQ3X	1,225,424 743,020	976		
EA4ST EA4RKU	2,283,270 2,266,320	3022 2399	91 93	279 333	KB1SO W2AX	10,297,485 10,035,800	5538 4936	162 162	619 598	RW2F	23,815,161	12441	192	807
ED1BD EA1COZ EA3AR	1,916,784 1,861,617 1,738,064	2123	98	311 321 269	K1RX W4MYA KV1W	9,926,430 9,460,550 8,755,476	4439	175	660	HBØ /HB9AON	LIECHTENS 1 6,193,272		129	504
EA2AAE EA3RKG	1,648,920 1,626,400	2049 2015	125 100	395 300	K1KI N6AW KB1H	8,514,336 8,298,150 8,181,852	4295 4479	157 166	587 569		ZL 2,478,978 LITHUAN	3513		
ED1CL EA5AFH ED2WW	1,410,084 933,324 708,474	1486	80	322 207 217	K2RD/1 N2MM	7,338,956 6,571,927	3529 3422	162 158	596 581	LY7A MAI	10,579,495 YJ VYSOTSK	7880		
ED2RCA EA1URO EA1RCT	568,733 469,092 310,926	941 923 804	74	268 217 174	W8ZA K3ANS	5,703,733 4,956,216 4,893,696	2627	157	539	R1MVZ	14,151,288	10253	175	621
ED5WEB EA5RKL	251,328 94,300	561 319	65 68	207 162	K5KG/2 W3MM K3II	4,842,915 4,579,785 3,947,284	2373 2273	160 159	575 576	SP9KDA SP5ZDH	POLAND 1,007,019 56,952	1629		
ED1EB	27,729 SVALBAR		32	47	NM4T N2BIM	2,984,130 2,429,843	1909 1456	151 139	488 462	GM7V	SCOTLAN 18,798,580	ID		
JW5E	1,961,290 SWEDEN	ı			W1QK WØAIH AB2DE	1,881,516 1,049,220 790,372	1006		306	EA4ML	SPAIN 10,436,044			
SK3W SL7BZ SK7AX	7,131,680 921,639 285,075	3987	85	676 296 237	KØUE KB8Q0	766,736 597,474	872 803	98 93	248 249	ED7VG	2,667,126	3424		
8S2F	41,553	435	14	67	W4D K4WPM	539,414 309,618	656 518		249 231	SK6D	SWEDEN 1,173,012		101	377

EA1DKF, EA1EBJ, EA2CHL, EA3AYQ, EA1FAE, EA2ABQ, EA3BJM, EA4AFI, **OCEANIA** BANABA 2,359,840 3084 114 187 EA4CEN, EA5AVD, EA5FSC, EA5FXS, EA5LV, EA5UW, EA6GP, EA7ARD, EA7BBB, EA7GBD, EA7GSU, EA7GVW, T33Y HAWAII EA7HE, EA8BYL, EA8ZZ, EA9BO, EC4AJL KH7R 33,588,440 14691 195 635 EC8AQQ, EW3LB, EW8CM, HA5AEX HA5AF, HA5WG, IC8SCI, IKØJMS ECBAUU, EVOLU-HASAF, HASWG, ICBSCI, IKUJINIO, KØMLH, K6FM, KF6SIL, LA1FW, LA3VJA, LA4LN, LA4OGA, LASLT, LA5RIA, LA7E.IA LA7GM, LABCD, LA9NM, INDONESIA 191,208 413 90 158 YBØZDC PHILIPPINES DX1DBT 1,135,775 1920 89 162 LA9TJA, LY2BAG, LZ3AB, OH2PR, OH3R OH3WR, OZ1JMO, OK2BCJ. OK2EQ. OK6L OZ7BW, OZ8RN PA3AAV, PA3EXI OZ2MD, PAØUKC, **SOUTH AMERICA** PAØRBA. **ARGENTINA** PA3FOZ, PA3GVI, PY2EJN, PA3HGF PA90K, PY3TD, PT7WA, PY3CEM, LU4FM 11,240,704 8107 154 454 RAØFA, RV6AB, RA1ZM, RZØSB, RA1AVP RA4LC **BRAZIL** RW6AML RZ1AR PY3MHZ 1,200,320 1621 85 235 SMØBNK, SM2UJW, SM3CBR, SM5CVC SM6RTM, SP1DMD, SP1JON, FERNANDO DE NORONHA SP2QCR, SP3NX, SP4TVO, SP5CEQ, SP4CG.I SP4SAF ZXØF 41,625,828 16263 195 801 SP5CGN, SP6BEN, SP6CIK, SP6LUV, SP6OJG, NETHERLANDS ANTILLES 59,127,810 20618 188 834 SP6FIB. SP6KEP PJ4B SP8BWR, SP8HKT, SP8JMA, SP8KBZ **PARAGUAY** SP8SRS, SP9CLO, SP9CQ, SP9GFI, SP9GNM, SP9MCU, SP9DEE SP9MDY ZP6T 4,158,441 4457 115 332 SP90DY, SQ5AAS, SQ5TT, UAØCA, UAØJD, UA3PB, UA4CDV, UA4PKN, UN6T, W7LBN, YL2AZ, YO3ABL, SQ9CAQ UA3UBT URUGUAY A3Pb, UN6T, UY9m, ARL, YO3BWK 4,401,019 4217 128 359 CV1T WO3CTK, YO3GDA, YO4ATW, YO5BIM, YO8AII, YO8BNG, YO8OH, YO8ROO, YO9AHX, YU1AXY, YV6DBW, Z32AF. **CHECK LOGS** Our thanks to the following stations who sent in check logs.
3Z4X, 4X1IM, 4Z5DW, AA9IV, AL7CC,

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