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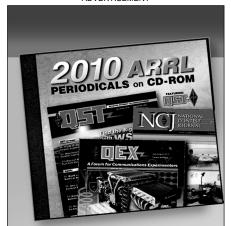
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Results, 7th IARU World HF Championship

This is what this contest should be: fun, lots of contacts and great DX—Shawn, N1HOQ

By Billy Lunt, KR1R Contest Manager and

Warren C. Stankiewicz, NF1J Assistant Contest Manager

here was a big difference between 1992's IARU HF World Championship and those of the past several years. Poor band conditions had led to a decline in scores and interest in the contest. The great propagation we enjoyed this year, however, has turned things around. The old adage proved true: When there are good band conditions, it's easy to work plenty of people and everyone has a good time while doing so. Participation in this year's contest, the weekend of July 11-12, really sprang to life! The level of enthusiasm was high. At ARRL HQ, the first thing we noticed was that entries increased 21% over the previous year and the number of Headquarters stations more than doubled from nine last year to 19 this year. It didn't take long to fill our filing cabinets with contest entries this time around.

Fifteen meters was wide open for the entire contest! For example, Charlie, K3WW, started on 15 meters and worked more than 700 stations in the first 11 hours of the contest. In fact, he was making five-point QSOs on 15 as late as 0230Z! Andy, UX6B, ran Japanese stations on 15 well into the night, finishing with more than 2000 QSOs and 78 multipliers on this band alone. Fifteen meters is becoming more of a mainstay, as 10 meters gets sluggish at this point in the solar cycle.

Although the usual summertime static appeared on the low bands, it didn't slow anyone down. The better-than-average conditions down there allowed people to make contacts that would have been much tougher to work in 1990 or 1991. Tony, ZL2AGY, concentrated on 40-meter CW and made 193 contacts with 100 watts and a dipole. Don't overlook this band! Forty meters can be a good backbone for working local stations, while the higher bands may only be good for long-haul DX.

A look at the Top-10 boxes shows how good things were. Scores were up dramatically over last year. Many overall winning scores from the past two years would have had a hard time just making the boxes this year. Forty-two zone records were set, most dating to 1989, the last year we had decent conditions. Three of the top four overall-score records were broken, as Gyozo, HAØMM, beat his previous mixed-mode record by 345k, and the team at UX1A de-

stroyed the previous multioperator mark by more than 2.7 million points. In the US, the KA5W multioperator crew in Texas topped N5AU's five-year-old record by 140k

IARU Headquarters Stations

HG92HO (HA1s VO,WD,YA,YU,HA2RX,HA4s YD,XT, HA5s AWH,BGG,FA,FM,GF,IW,MK,ML,OM,OR,UA HA6s GK,GM,IDL,ND,NF,NO,ON,OQ,VH,VR,VX,WP, WX,ZQ, HA7RY,HA0s DU.HG,LC,NAR,HG5CC, HG6GD,ops) 29.

DAØHQ (DF7RX,DG1RMF,DL1s DTL,SBR,DL2s NBU, SAX,DL3s OI,VHF,DL4NAC,DL5s ARX,LYM,DL6FBL, DL8WAA,Y21CW,Y23EK,Y32VK,Y33s UL,VL,Y42s IK,LK,MK,OK,Y54NL,Y57UG,Y77VH,ops) 9,751,980 10813 29

YP@A (YO2BV,YO3s APJ,AWT,FU,JF,YO4s ATW,BEX, HW,NF,SI,XF,YO6AWR,YO8s AXP,BAM,CMB,YO9s BEI,FE,HP,ops) 4,813,042 6421 24

ZA1A (DF3CB, KC6KOU,OH1MKT,OH2s BH,BSI,OH6EI,ZA1s B,C.D.E.F.G,H.I.J.K.L.M.N,O.P.G.R.S,T,U.V.W.X,Y.Z.Ops) 3,809,520 6067 195
W1AW (N1CC,K2WR,KR2J,N2KW,WB2DIN,K3IPK,N3ADC,WN3K,Ops) 2,188,480 4652 186
GB4HQ (GØHSD,op)/GB5HQ (G3OZF,op)/GB6HQ (G0MFO,op) 1,729,760 3220 166

(G0MFO,op) 1,729,760 3220 166 SK3HQ (SM3s BDZ,CER,DMP,RAB) 1,503,212 2670 156 OTZO (ON4s ACG,KAR,VT,XG,ON5WL,ON6s NL,WL,ONL-6945.ops) 1,403,832 2570 174

NI,WL,ONL-6945.ops) 1,403,832 2570 174
4U1ITU (IK2NCJ,IV3TAN,ops) 1,102,815 1953 111
FF1REF (F1s HXH,HYH,JTL,RWA,F11KVS,ops) 824,145 1896 105

JA3RL (JA3MAU,JG3RPL,JISERV,JJ3WPF,JN3s QLL, VOG,JQ3OZY,JR4ISF,ops) 7/14,816 1406 153

 VOG,JQ3OZY,JR4ISF,ops)
 714,816
 1406
 153

 OGBC (N6HR,op)
 517,854
 1289
 102

 TU2CI (TU2OP,TU2XZ,TU4EF,ops)512,4751375
 75

 LA7HQ (LA4s OFA,YW,ops)
 403,798
 1273
 101

 OE1XHQ (OE1s MCU,TKW,ops)313,220
 703
 120

 SV1SV (8V1s AHV,AOZ,BDO,BKE,MF,QN,ops)
 216,580
 826
 98

5A 6,664 81

points. As the sunspot cycle declines, these records will be hard to beat.

It wasn't just the "big gun" operators who

It wasn't just the "big gun" operators who enjoyed this contest, however. The challenge of contesting is for everyone, and just about anyone can get on and have a good time. The incentive of earning certificates for making 250 QSOs or 50 multipliers adds to the fun of participating in the IARU HF World Championship. This way, you don't have to win to come away with an attractive certificate for your effort. Mike, KB9BIB, exclaimed, "I was hoping to make at least 200 QSOs, but I was surprised when I made 688!" Rita, KD1BM, remarked, "It was quite a contest, but I worked my heart out and qualified for my first contest certificate!"

The competition among IARU Headquarters stations was closer this year, with the Deutscher ARC's effort from DAØHQ giving a strong challenge to perennial top finishers HG92HQ from MRASZ. The German group topped the Hungarian's QSO total, but didn't make enough of the valuable five-point contacts to win. We welcome the IARU-member society headquarters stations from Albania, ZA1A, and the Ivory Coast, TU2CI, on their first entries in this contest.

The Radio Society of Great Britain (RSGB) took advantage of the rules for HQ stations and split its effort into three entries this year to maximize its score, while minimizing interference between its stations.



The team that put ARRL HQ station W1AW on for the contest included (I-r) Doug, N3ADL; John, KC1XM; Jim, N1CC; Bob, KR2J; Allen, N2KW; Bob, WN3K; Rich, K3IPK; and Rich, K2WR.

GB4HQ operated on the 80- and 40-meter bands; GB5HQ operated on 160 and 15 meters and GB6HQ operated on the 20-meter band. Their combined efforts gave the RSGB team a score of 1,729,760.

If this year's contest was a harbinger of things to come, you won't want to miss the next IARU HF World Championship. If you've never contested before, this is a great opportunity to get your feet wet. Thanks to Contest Assistant Anne Jaworski for her help in preparing these results. The 8th IARU HF World Championship is July 10-11, 1993.

SOAPBOX

It was a nice contest, but to make a good score, I'll need better antennas (OD5/SP1MHV). What a difference a year makes! Conditions were much better than last year, with 15 meters open 24 hours a day and Europeans starting to come in on 10 Sunday morning. The hardest part of the contest was having to tell ZA1A he was a dupe (WD4AHZ). This is my first contest since getting my ticket in January. It's all new to me, but I enjoyed it very much (KQ4AX). I was surprised to find 21 MHz so good after several weeks of it being almost dead! (LA2AD). It was my first, but not last, IARU HF championship. I'm looking forward to next year (OZ9AEC). This was my first serious participation in this contest and I enjoyed it very much (ON4APA). I was happy to work two new countries during the contest (JAIASO). Using only a temporary setup, I managed to have lots of fun! (YB3ASQ). Since 1983, this is the first time I've been able to take part in the contest and it was great to be back! I've retired to my country home on a few acres of land, and now I'm growing antennas as a hobby-unfortunately, they're slow growers (VK2AYD). The contest was lots of fun. I worked many familiar call signs and many new ones. My main interest this year was to give 40 meters most of my attention (ZL2AGY). It was a great contest for me as a 16-year-old boy. I found it an interesting challenge (Y24AO). This was the first time we used a linear amplifier. It arrived the day before the contest (5B4ACY). It was great to only have to search and pounce three times on 20, and it was great when ZAIA answered my CQ (KB9BIB). I seemed to be a multiplier for everyone. It was great! I'll be back next year, for sure (CTIBWW). It was difficult to operate in the contest, but at the same time, it was a pleasure! Next year I hope to do better (YO5BO). This is the first time I participated in this contest. I found propagation to be very good! (UX6B). The contest was nice. It was too bad I missed the 80meter openings (UA6BPJ). Although I only had a few hours to work this contest, it was nice (LAØCX). We had to use our home station, as the antennas at our club site crashed during a heavy



Lionei, G5LP, listens intently for another contact at the well-equipped GB4DX.

Top World Scores Mixed CW Call Call Score Score наямм 2,274,024 1,421,676 1,293,872 ZY10 (YU1RL,op) 2,053,014 6B4ADA 1,601,600 JA3RAR JT4UZ COBM 1,275,092 (CT1BOH,op)1,492,590 K1TO 1,164,670 G3FXB 1,121,400 RT91 (RB5IM.op) UT5UGR YU7AV 1,239,480 1,209,274 1,157,518 (UAØSAU,op) 1,101,168 ZD8LII 1,037,088 WØZV 1,020,537 K3WW AI7B OG6NIO 1,150,876 1,137,300 1,098,495 9A1CCY Phone (9A3NM,op) WQ5W 957,768 933,910 Call Score RY7D 1,257,450 Multioperator LIXER ,239,087 ,175,850 Call Score ONSTT GMØECO UX1A 6,065,368 1,065,991 1,033,965 6,065,368 3,214,827 2,932,440 2,711,520 2,116,980 1,962,584 1,776,349 HG1S RYØQ 4K5ZI EZ6L R9J KA5W 5Z4BI DLBPC YU3HR 991.935 K4XS (WC4E,op) YZ3A 960,644 (YZ3EA,op) 1,688,487 1,217,610 1,189,377 934,76B 891,648 GB4DX 9A1CRT ÚBSJWW **Top W/VE Scores** Mixed CW Call Score Call Score K3WW 1,150,876 1,137,300 K1TO 1,164,670 1,164,670 1,020,537 933,910 829,184 788,956 774,400 732,814 WØZV WQ5W KB0G AI7B KZ5D KW8N (NZ4K,op) WX9U 831,174 W1WEF KT3Y N6TR 802.961 570,696 568,242 487,320 449,955 VY2SS W1GD

AD5Q

K5RC

Call

KA5W N2IC/Ø WW2Y K9FD NCØP

K9SD WXØX KS1A NR1L

(K5GN op) WA6AUE

Multioperator

441,843 401,744

Score

960,644 891,648 768,222 536,507

403,624 398,820 331,315 305,286

KN1M

Call

KG5YA

Phone

K4XS (WC4E,op) WB2K

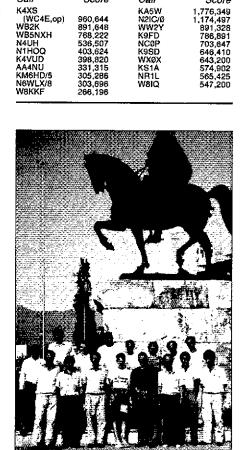
WB5NXH N4UH

N1HOQ K4VUD AA4NU KM6HD/5

688,250

674,520 571,692

Score

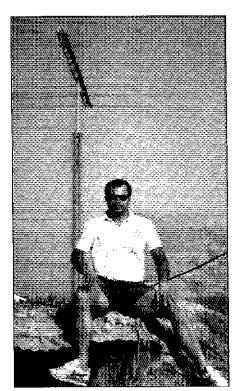


Members of the Albanian Amateur Radio League activated ZA1A in Tirana as an IARU HQ station for the first time in this

storm earlier this year (PI4COM). A barefoot transceiver and a few pieces of wire equals summertime fun! (AA6DX). This was my first participation in any contest. I enjoyed it very much (7K2DOD). This is my first time in this contest and I enjoyed it. I managed to work two new countries. My goal was to make 250 contacts and I was pleased when I did (N9MDW/5N6). The contest was excellent, with excellent conditions and excellent operators, but the W/VE turnout was poor. I love the 24-hour format! (N6EE). It was a nice contest, and I enjoyed it (RB5EL). This was only the second contest I've worked. It was definitely the best! I was able to make contacts with many countries (NIKFN). Thank you for an excellent contest! (LZ3FN), To me, the contest was certainly a challenge this year because prior to the contest, all of our antennas were destroyed during a June 19 storm, except for our 2-element 40-meter beam at 20 feet, fixed NE. I'll be back for the next IARU contest (N5CG). I used 100 watts and low dipoles. I want to thank the operators who pulled me out of the noise! It was a fun contest (KB1GW). Thank you for a nice contest (YL2GVW). The first two hours were great, then the amplifier broke! It was 2100Z before I was able to get it to work again. I found the low bands disappointing, but the 15- and 20-meter bands made up for it. Thanks to YJ8RN for the new multiplier and an all-time new one (KM6HD/5). This being my introduction to the IARU contest, I found it enjoyable! (NH6HF). Even with bad propagation, the contest turned out nice. I hope next year is better! (IKØHBN). It was a great contest with unexpectedly good band conditions. I waited too long to go to 40 meters. Where were all the multipliers? (NP2I). It was a good contest with much better conditions than last year, except activity on 10 meters was too low (PAOIJM). This is the first contest I've participated in, and it was great fun. This was also the first time I spent any time on 40 meters, which I found enjoyable (N7UJJ). Without the solar storms, propagation was better than last year (KE2JO). What else is there to do when the temperature is 110° F but work a contest! (WAØKDS). This was my best score ever! What more could a suburban ham ask for? CU next year (WB2K). The conditions were 10 times better than last year! The 15-meter band was great through the whole contest (NRIL). At last, Lady Luck smiled on me in this contest! The competition was enjoyable. Thanks a million! (UB5LCV). It was a good contest, and not a marathon. The 24-hour length suits me fine! (ZD8LII). Having a lot of QRM/QRN made for poor conditions (HA5LZ). The bands were better than last year, but there seemed to be less participation, CW was more productive (N5NMX). I'm 17 years old and this was my first contest (OE1MBB). It was a great contest! (DL2MEH). Thank you for a nice contest! If possible, I'll take part again next year (DL9MFL). After lightning had disabled most of the station, it was a challenge to get on the air.



Sixth-place mixed-mode finisher Dmitry. UT5UGR, of Kiev, remarked, "Conditions were great this year and I can't wait to do it all over again,



Ivo, 5B4ADA, of Nicosia, Cyprus, sits in tront of the 14-element log periodic that helped him to his second-place overall, CW-only finish.

Then, more thunderstorms came and a blown amp took us off again! Regardless, the young operators that we had performed well (WX3N, op at WXØX). As I'm getting older, I'm getting better (AE2N). It was a good contest! (UAINDV). It was hard to participate in the contest, as it was a beautiful summer day! (WAØOUI). Let's hope this contest is as much fun when the sunspots go away! (K1TO). Did anyone else do better this year than last? This is what the IARU should be--fun, lots of contacts and great DX. I only wish I'd done more "sleep preparation" for the contest (N1HOQ). Graduate school has kept me away from the radio for almost two years. It was nice to dust off the rig and find the contest! (NZ3O). This was my first attempt in a foreign contest. I was glad I took part, as it was fun (JQ1OCR). I had a lot of fun with my window antenna! (DL100). We seldom have such good conditions. The only trouble was the QRN on the lower bands! (DL8PC). I didn't expect the 15-meter band to be so good! This year's score will be hard to beat (AD5Q). Propagation was good, but signals were weak! It was a pleasure to compete for the full 24 hours, and I enjoyed meeting new and old friends, using my usual ineffective hunt-and-pounce technique (VE1REC). It was an interesting contest! My special thanks to Rolf, PY1RO, and Sonia (YUIRL/ZY1R). I almost doubled last year's score (IG8R). This was our first contest where we worked as a team. We hope we'll do better next year (DL1RNH), it was difficult to run in the contest during Stampede Week in Calgary! (VE6SH). I've been an SWL for years. This is my first contest, as I've been licensed for only three weeks (GIØSAP). Propagation was excellent and the level of activity was good. I enjoyed it. (ON6TT). I get a lot of pleasure participating in this contest (ON6TJ). I found 10 meters nearly dead and 40-meter phone was too crowded. It was a nice contest, but I'm hoping for better conditions next



Well-known contester Jan, PAØIJM, led The Netherlands in the phone-only category. He claimed, "It was a good contest with much better conditions than last year."

year (DLØTO). As I was tired because of a university examination, I could only stay awake for 10 hours (LZ3YY). I found conditions on the I0-meter band poor. Next year, I hope to have a decent antenna, so watch out! (OZ2ZZZ). Thanks for a nice contest (4K5ZI). The conditions were good, which made this a good contest! (OK3ZBU).

Scores

Scores are listed by ITU zone and then by country within that zone. The line score indicates the call sign, final score, QSOs, multipliers and entry class. The entry class letters indicate the following: A = single operator, mixed mode; B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter.

omgio nanemme.				
Zone 1	Orange	KA7V 214,830 767 62 C	West Texas	AB1U 58,640 238 59 C
	WK6O 75,899 261 71 C	KI7Y 81,740 326 67 C	WF5E 101,505 491 101 A	NRIL (+KAIQAS)
Alaska	W6HAL 61,364 278 58 C	KA7FEF 10,63B 106 87 C	AA5ZX 43,732 176 58 A	565,425 1249 105 D
KL7Y 1,421,676 2432 138 A	N6PEQ (+N6DEC)	Utah	W5KFT 149,345 443 85 8	Eastern Massachusetts
NL7HT 20,202 130 37 B	406,010 1021 110 D	K6XO 236,313 595 99 A	Colorado	NW1U 152,724 540 66 A
KL7FAP 5,420 67 20 B	Santa Barbara	W7HS 115,830 293 90 A	NØZA 301,860 864 90 A	N1HOQ 403,624 889 104 B
7 0	WA6FQV 86,871 351 69 A	Western Washington	ADDO 290,825 730 107 A	WA1NPZ 113,295 355 83 B
Zone 2	W6BKY 29,392 199 44 C	WA7UVJ 103,262 410 69 C	K1EH 35,319 151 61 A	KS1A (+WB1GEX,KB2R)
Alberta	N6HK 16,071 117 33 C	N7LOX 71.095 337 59 C	KDONB 100,598 308 83 B	574,902 1135 123 D K1MBO (+NET) 8,640 56 36 Ü
VE6GEL 132,912 488 72 B	Santa Clara Valley	KF7QF 38,450 215 50 G	W02V 1,020,537 1459 167 C WY0J 92,856 332 72 C	.,
VE6SH 462 23 11 B	N6IP 320,226 685 114 A	N7RVD 2,352 64 14 C	ACØS 37,544 200 52 C	Maine
CJ6BF (VE6BF,op)	AA6KX 73,206 314 69 A	Wyoming	N2IC/Ø (+KØKR.NQØI)	KN1M 441,843 1113 93 A KA1GTR 73,125 259 65 B
140,475 484 75 C	N6NF 285,670 777 98 C	KB7M 2,944 32 23 B	1,174,497 1713 173 D	KA1GTR 73,125 259 65 B WA1WPR 1,092 25 12 C
British Columbia	K6MJ 109,522 285 82 C	2,011	lowa	
VE7JMN 57,171 337 51 B	San Diego	Zone 7	KCØGM 120,572 326 86 B	New Hampshire
VE7XO 47,992 200 56 B	KI6ZH 374,270 735 130 A		W0PPF 30,784 183 48 B	KC1F 30,411 207 31 C
VE7UF 109,230 399 66 C VE7EKS 248 20 4 C	KT6V 8,736 73 92 A	Louisiana	NCØP (+NØAMI,WÖØV,WRØG)	Rhode Island
4615K2 540 50 4 0	KD6OK 45,708 229 52 6 W6ON 21,450 105 50 B	KZ5D 831,174 1487 138 A KB5RDX 4.840 62 22 C	703,647 1409 119 D	K1PLX 241,680 563 106 B
Zone 3	W6CN 21,450 105 50 B KA5Q/6 60,592 286 56 C		Kansas	Vermont
	W6MVW 10,726 88 31 C	North Texas	WBØYJT 30,052 150 44 A	WW1R 19,305 144 39 B
Ontario		WSMW 37,630 184 53 A	N0FMR 40,188 212 51 C	WI1S 53,276 300 38 C
VESTEE \$,666 27 17 A	San Francisco	WSPLN 136,068 386 87 B	NWØF 54,200 184 50 C	WW1C (+KC1WH)
VESTPB 3,040 44 16 B	WB6SRM 31,263 187 51 A AA6DX 47,304 274 54 G	WQ5W 933,910 1424 133 C K5RX 228,888 552 102 C	Minnesota	348,564 948 93 D
Manitoba	WW6D 19,950 169 30 C	AA5UD 85,547 304 77 C	WØRXL 47,385 169 65 A	Western Massachusetts
CJ4VV 449,955 1169 101 A	· ·	KA5W (+KS1G,KRØY)	KFOVB 55,141 234 67 B	N1KFN 19,874 133 38 B
	San Joaquin Valley	1,776,349 2315 197 D	KEQUI 48,888 212 56 C	Eastern New York
Zone 4	N6WCW 55,080 617 71 A N6EE 50,585 189 67 A	NASO (+AASOR)	W2HTX/9 6,016 46 32 C	K2POF 101.892 271 64 A
Quebec	WW6O 226,301 575 97 B	485,298 1123 114 D	Missouri	AA2GS 86,979 239 79 A
CJ2AWR 42,732 301 36 A	WC6U 120,232 422 76 G	Oklahoma	NVØU 60,166 256 67 B	K2ONP 33,280 200 40 A
VEZWAT 63,950 301 50 C	Sacramento Vallev	N5CG 111,020 478 65 A	NIØC 35,640 121 72 C	NA2M 98,600 306 85 C
	N6WR 56,724 274 58 B	KM8HD/5 305,286 797 102 8	KMOL 29,521 131 S3 C WAGOUI 3,717 43 21 C	WA2STM 52,512 417 69 C
Ontario VE3ZD 41.344 160 64 B	WA6AUE 571,692 1073 132 C	N31V/5 286,832 818 91 C WV5S 282,735 683 103 C	WAGOUI 3,717 43 21 C WXGX (WX3N,WX9E,AAGCR,ops)	WI2N (+AA2BJ,W(2E,ops) 432,564 967 113 D
VE3ZD 41,344 160 64 B VE3WDJ 8,640 64 24 B		******	643,200 1346 120 D	•
VE30MU 3,703 41 25 B	Arizona	South Texas	Nebraska	NYC-Long Island
VE3OBU 1.584 25 16 B	WA7LNW 344,448 695 104 A N7JXS 58.340 261 67 A	KG5YA 401,744 861 112 A		KA2HMJ 100,204 484 47 C
VE3KP 313,960 814 94 C	N7UJJ 47,020 295 45 B	WB5NXH 768,222 1563 126 8 KA5WSS 183,616 624 78 B		Northern New Jersey
VE3CWE 91,686 329 74 C	WAØKDS 7,589 60 33 6	WA51YX 74,905 263 71 B	South Dakota	W1GD 487,320 943 120 A
CJ3BR 390 16 5 C				
	N7CIX 123,369 610 51 C	AD5Q 688,250 1324 125 C	WD0BMR 250,690 747 86 8	WA2UDT 43,450 182 55 A
	N7CIX 123,369 610 51 C	AD5O 688,250 1324 125 C KSRC (K5GN,op)		AA2EM 29,680 135 53 A
Zone 6	N7CIX 123,369 610 51 C Nevada	AD5Q 688,250 1324 125 C KSRC (K5GN,op) 674,520 1124 154 C	WD0BMR 250,690 747 86 8 Zone 8	AA2EM 29,680 135 53 A N2KJM 16,456 118 44 A
	N7CIX 123,369 610 51 C Nevada N7XCZ 286 12 8 B	AD5Q 688,250 1324 125 C K5RC (K5GN,op) 674,520 1124 154 C W6VX 561,920 1102 128 C	Zone 8	AA2EM 29,680 135 53 A N2KJM 16,456 118 44 A WB2K 891,648 1318 182 B
Zone 6 East Bay KK6XA (+KD6s AGB,JSC)	N7CIX 123,369 610 51 C Nevada N7XCZ 288 12 8 B Oregon	AD5Q 688,250 1324 125 C KSRC (K5GN,op) 674,520 1124 154 C W6VX 561,920 1102 128 C W5ASP 70,512 340 52 C	Zone 8 Connecticut	AA2EM 29,680 135 53 A N2KJM 16,456 118 44 A W2KK 891,648 1318 182 B K3FNW 112,658 325 89 B
Zone 6 East Bay	N7CIX 123,369 610 51 C Nevada N7XCZ 286 12 8 B Oregon AI7B 1,137,300 1812 150 A	AD5Q 688,250 1324 125 C K5RC (K5GN,op) 674,520 1124 154 C W6VX 561,920 1102 128 C	Zone 8 Connecticut KJ4KB 2.576 38 23 A KD1BM 60,486 230 56 B	AA2EM 29,680 135 53 A NRKJM 16,456 118 44 A WB2K 891,648 1318 182 B K3FNW 112,658 326 89 B W2OAE 10,304 78 32 B W2HCA 50,490 201 66 C
Zone 6 East Bay KKSXA (+KDes AOB,JSC) 29,250 126 45 D	N7CIX 123,369 610 51 C Nevada N7XCZ 286 12 8 B Oregon AI7B 1,137,300 1812 150 A AI7W 235,586 747 82 A	ADSQ 888,250 1324 125 C K5RC (K5GN,op) 674,520 1124 154 C W5VX 551,920 1102 128 C W5ASP 70,512 340 52 C W5NR 21,360 164 40 C N5NMX (+AA5BL,NSNMY) 375,376 880 116 D	Zone 8 Connecticut KJ4KB 2.576 38 23 A KO1BM 60,456 230 58 B K1TO 1,184,870 1598 170 C	AA2EM 29,680 135 53 A N2KJM 16,455 118 44 A WB2K 891,648 1318 182 B W2CAE 10,304 76 32 B W2HCA 50,490 201 66 C WA2VYA 25,248 135 61 C
Zone 6 East Bay KK6XA (+KD6s AQB,JSC) 29,250 126 45 D Los Angeles	N7CIX 123,369 610 51 C Nevada N7XCZ 288 12 8 B Oregon AI7B 1,137,300 1812 150 A AI7W 235,586 747 82 A WBTUSJ 88,550 304 75 A KB7CXI 33,400 200 50 B	ADSQ 888,250 1324 125 C KSRC (K5GN,op) W5VX 561,520 1124 154 C W5VSY 70,512 340 52 C W5NR 71,300 184 40 C N5NNX (+AA5BL,NSNMY) WQSY (+KESQX,KFSN,NSSEH,	Zone 8 Connecticut KJ4KB 2.576 38 23 A KD1BM 60,456 230 68 B K1TO 1,164,670 1585 170 C W1WEF 788,956 1494 133 G	AAZEM 29,680 135 53 A N2KUM 16,456 118 44 A WBZK 891,648 1318 192 B K3FNW 112,658 325 89 B W2OAE 10,304 78 32 B W2HCA 50,490 201 66 C WAZYYA 25,248 135 51 C WAZASO 6,634 76 31 C
Zone 6 East Bay KK6XA (+KD6s AQB,JSC) 29,250 126 45 D Los Angeles	N7CIX 123,369 610 51 C Nevada N7CZ 288 12 8 B Oregon AI7B 1,137,300 1812 150 A AI7W 235,586 747 82 A WB7USJ 88,850 304 75 A	ADSQ 888,250 1324 125 C K5RC (K5GN,op) 674,520 1124 154 C W5VX 551,920 1102 128 C W5ASP 70,512 340 52 C W5NR 21,360 164 40 C N5NMX (+AA5BL,NSNMY) 375,376 880 116 D	Zone 8 Connecticut KJ4KB 2.576 38 23 A KO1BM 60,456 230 58 B K1TO 1,184,870 1598 170 C	AA2EM 29,680 135 53 A N2KJM 16,455 118 44 A WB2K 891,648 1318 182 B W2CAE 10,304 76 32 B W2HCA 50,490 201 66 C WA2VYA 25,248 135 61 C

Southern New Jersey K2PS 32,004 199 36 A	West Virginia K8QQL 123,597 371 93 A	ZY1R (YU1RL,op) 2,053,014 2099 201 C	FD1PCX 33,496 140 53 B FD1PXQ/P 31,008 186 51 B	DL7BQ/A 123,975 403 95 C DL7CF 119,180 309 101 C
WA2LBT 25,300 154 46 A	Illinois	PY2YN 11,496 99 24 C	FE6FNA 20,351 118 47 B	Y23RJ 109,467 363 93 C
AB2E 504,153 1051 117 C KC2TA 21,060 223 36 C	WX9U 570,696 1150 129 A	Zone 18	F2RO 19,320 301 42 B F5IN 293,433 843 89 C	Y25ZN 107,136 340 96 C Y29AG 105,450 326 95 C
K2SWZ 17,472 111 42 C AE2N 11,466 125 26 C	WD9GGY 64,602 239 74 A W9LYA 66,882 258 71 B	Norway	F6CEL 118,690 550 55 C FD1RAB 8,220 92 30 C	DL1BUG 104,139 419 87 C DK3GI 103,872 296 96 C
WW2Y (+K2WI,N2NU)	K9ZO 497,040 1114 114 C N9AEJ 363,051 858 107 C	LA1K (LA1BFA.op)	FD1ROP (+FD1s PGP,SIH)	DL2GBB 103,833 340 83 C
891,328 1412 152 D Western New York	KB9BIB 142,560 688 54 C	229,500 894 75 A LA2AD 83,102 178 54 B	445,018 1131 98 D FF5OJ (FD1s REM,RRX,ops)	DL3HWD 86,800 303 100 C DL6RDE 76,860 355 60 C
KD2YP 205,640 470 106 A	K9MMS 131,040 428 80 C K9UQN 10,962 96 27 C	LA6ZFA 17,630 126 48 B LA6VDA 13,776 94 28 B	91,432 301 88 D	DL1TH 72,890 265 74 C DL9MFL 61,546 298 69 C
KB2DE 37,526 157 58 B KB4VL 28,392 150 42 B	W9EBY 8,547 57 37 C K9FD (K9BGL,KC9AL,NB9T,	LAUCX 42,147 379 109 C	England GØAEV 290,250 642 129 A	DL3OBE 55,296 256 64 C
KB2NMV 13,176 94 36 B	NZOV.ops) 786,891 1245 159 D	LA6CF 41,883 348 69 C LA7AFA 25,596 193 29 C	GOKTN 38,430 172 61 B	DL100 40,464 180 72 C
KW2.I 147,186 448 78 C WA2EYA 79,945 367 59 C	K9SD(WW9L,WW9Q,KAØGGI,KW0A, NDØF, WØHBH,ops)	LA2HFA 13,156 117 26 C	G3ICG 14,980 124 35 B	DKØNW (DL1ZQ.op 37,434 213 51 C
W2OMV 40,100 175 50 C	646,410 1130 145 D N9LCR (+N9NMC)	Aland Island OH1MTT/OH8 384 22 6 B	G3FXB 1,121,400 1575 168 C G3SWH 179,000 510 100 C	DJ5GG 28,872 222 51 C Y24XO 27,391 214 49 C
Delaware NX3A 106,760 320 85 A	126,906 431 78 D	Finland	G3ESF 172,568 438 106 C G3DFV 114,067 353 87 C	DK8KC 27,384 177 56 C
Eastern Pennsylvania	Indiana	OG6NIO 1,098,495 1859 135 A	G3TXF 104,648 310 103 C	DL2RUG 25,900 175 50 C DL6KWN 24,978 278 46 C
K3WW 1,150,876 1874 149 A	KF9CX 16,800 86 48 A KB9C 74,151 287 63 B	OG3MIG (OH3MIG,op) 87,654 523 42 A	G3UFY 19,680 234 24 C GB40X (G4BWP,G5LP,ops)	Y26FI 21,788 98 52 C DL3KWR 16,992 111 48 C
W3BGN 113,700 445 60 A KA3ZJZ 6,380 88 22 A	W9JOO 24,228 210 36 C	OG3OJ 608,403 1245 139 B OH6NEV 86,570 305 88 B	1,688,487 2187 197 D G9FDX (G1AHM,G0s GVA,IDE,LBT,	DJØSH 14,212 109 44 C
NZ3O 1,058 23 12 A KA3QLF 35,316 166 54 B	Wisconsin NESJ 71,391 326 53 A	OH2PM 861,354 1355 162 C	NEI,ops) 384,443 1007 109 D	DL1DQY 13,992 170 33 C DK7FP 6,600 67 24 C
K3ZPG 12,685 81 43 B	K9OSH 40,250 199 46 A	OG1HS (OH1HS,op) 779,520 1446 140 C	GØNKL (GØs FOD,LKK,MPL,MPJ, OFD,ops) 144,876 393 95 D	Y52XB 5,940 58 30 C DJ6BN 4,324 72 23 C
KL7HIR 224,010 620 95 C WF3L 118,523 425 67 C	W9HE 91,884 281 76 C N9XX 27,864 152 54 C	OG4YR 684,474 1428 129 C OH7UE 561,492 1297 108 C	GX4SME/P (G4WJR,G0s LAK, NEB,ops) 91,350 396 75 D	DL2VLA 4,080 52 24 C
WF3M 110,636 375 68 C WG3T 10,323 60 37 C	Zone 9	OHBLAE 425,376 880 126 C	G3LRS (G3HYH,G4OOS,GØATR,ops)	DF3QN 4,002 56 23 C DF5EN 3,925 75 25 C
N3CZB 930 33 10 C		OH6RC 38,784 156 64 C	5,842 66 23 D Northern (reland	DL9GUN 3,516 119 12 C DJ2YE 2,856 60 21 C
KD3TB (+NET) 63,360 248 66 D Maryland-DC	Maritime-Newfoundland VY2SS 568,242 1343 102 A	OH2YL 23,067 155 33 C OH2YF 19,725 214 75 C	GIBKOW 107,760 435 80 B	DL6UCI 1,173 49 17 C
NF3X 10,600 60 53 A	VE1REC 40,464 252 36 B YO9FHU/VE1 49,608 544 24 C	OG6UP 13,156 86 44 C OH5PA 1,504 30 16 C	GIØSAP 9,520 88 28 B	DL3KWF 429 15 13 C DL0VLT 280 12 10 C
WA2VUJ/3 767 13 13 B WZ3Q 557,100 1293 100 C		OG4QP 27 3 3 C	Scotland GMBECO 1,065,991 1805 139 B	DL8WOW 261 25 9 C Y38I (DL5XU,Y31WI,Y44XI,qps)
W3GG 195,160 658 70 C K3IXD (+NET) 40,535 193 55 D	Zone 10	Denmark	GM3BCL 48,825 330 31 B	997,360 1763 137 D
Western Pennsylvania	Mexico XE1/NV1P 59,100 330 50 A	OZ3ABE 139,275 569 75 A OZ1APA 64,093 193 107 A	GM3CFS 154,752 430 95 C GM3YTS 47,902 272 43 C	DL1QQ (+DL3OBL,DL8OBC,DL9AW) 678,016 1331 128 D
K5ZD 316,350 700 111 A	XE1VV 15,855 122 35 A	OZSEV 253,354 511 131 B OZ2ZZZ 131,860 400 95 B	Wales	DKØBP (DHØKD,DL1SDA,Y27PG, Y43YK,eps) 530,007 1037 123 D
WW3S 23,092 122 46 A W3YEY 12,620 155 37 B	XE2GV 17,978 199 23 B	OZ1LTB 121,524 393 76 B	GW4BLE 181,104 606 66 B GW0ARK 134,444 452 61 B	DLØGVM (Y22AA,DL4SVA,DJ6TJ,
WB0IWG 234 11 6 B	Zone 11	OZ1ASP 29,376 166 54 B OZ1FMO 2,835 39 27 B	GW3CSA/P (G4WSE,op)	DK7X\$,DL7SWG,ops) 423,728 900 142 D
Alabama	Martinique	OZ9AEC 304,976 786 112 C OZ8SW 48,203 224 59 C	161,660 655 59 D	DK6GYB (DL1RNH,DL2HSI,DL3HQC, DL6HUN,ops) 5,544 60 24 D
KK4SM 132,430 318 95 C Georgia	FM5CW 124,677 480 63 C	OZ5UR 15,698 100 47 C	Belgium ON5KI 12,083 83 43 A	Hungary
K4PIC 55,118 266 62 A	Haiti HH2PK 581,970 1556 95 B	OZ8XO 3,700 47 29 C OZ7ABP 2,820 83 10 C	ON6TT 1,175,850 1821 150 B ON5CZ 29,184 175 57 B	HA0MM 2,274,024 2340 246 A
KD3GC 79,994 323 74 B KB3G 829,184 1595 128 C	Dominican Republic	OZ5MAY 172 15 4 C	ON7YP 1,651 35 13 B	HA5NG 235,379 613 113 A
KB4GID 324,900 802 114 C	HI8OMA 59,850 475 42 B	Sweden SM3CVM 298,870 720 121 A	ON4APA 173,700 473 100 C ON4KFM 63,558 250 66 C	HA5KDB 428,928 972 128 B HA7RC 28,908 161 44 B
K4BAI 64,782 276 61 C Kentucky	HI3UNE (HI3AMF,op) 17,654 168 26 B	SM5DUT 2,752 48 16 A	ON6TJ 20,115 141 45 C OT2B (ON4OE,ON5EX,ON6s JV,	HA7TM 260,245 909 79 C HA5LZ 203,934 468 123 C
N4XM 93,708 335 76 C	Panama	SM3LIV 86,325 343 75 B SM4AAY 39,326 185 55 B	VK.ops) 549,854 1071 122 D	HA8FY 54,428 329 44 C
North Carolina	HP1AC 19,352 128 41 C	SM5GXW 32,248 163 58 B SM3LDP 6,790 63 28 B	Netherlands	HG1S (HA1s AH,DAC,DAE,TD,TJ, TW,ops) 3,214,827 3804 231 D
N4AA 208,428 750 83 A N4UH 536,507 1281 97 B	Virgin Islands NP2! 351,216 1150 72 C	SM7HSP 4,752 76 18 B	PAØIJM 626,484 1482 102 B PAØMIR 77,744 276 86 B	HG6Y (HA6s KNV,NW,OA,OB,OI,OO, OY,YW,ops) 659,572 1657 106 D
N4YDU 87,230 400 55 C K4PB 21,070 126 49 C	St Maarten, Saba, St Eustatius	SM1OY 1,248 38 12 B SM5IMO 256,215 661 93 C	PAZALF 30,537 87 22 8 PAZLOU 442,279 801 151 C	HASKCK (HASS DT,DZ,EK,FT,FW,
Northern Florida	PJ7/K2KTT 35,800 220 50 B	SM6NJK 247,338 612 117 C SM3CCM 246,440 668 101 C	PA3BNT 35,400 168 60 C	KH,ops) 615,072 1318 129 D HA3KHC (+ops)
K4X\$ (WC4E,op)	Puerto Rico	SM7TUG 84,560 352 70 C	PAØTA 1,365 29 13 C	172,300 574 100 D HAGKLW (+ops)
960,644 1824 137 B K4VUD 398,820 924 115 B	KP4GY (+KP4s 8Z,TB,TN) 794,770 2092 89 D	SM5RE 17,888 176 26 C	PI4COM (PA3s BBP,ERC,EWP,ops) 358,852 1256 67 D	29,736 162 56 D
N4VYZ 50,447 261 61 C	Guatemala	SM4BW 4,845 63 17 C SM7LAZ/6 296 15 8 C		Switzerland HB9AAA 354,081 924 91 B
South Carolina KC4UH 48,048 206 56 A	TG9AJR 116,039 497 67 8	SLOCE (SM3s SGP, SVX, SM7MXO, SMONZY, ops)	Zone 28	
WD8AMV 29,828 207 36 C	Costa Rica		O	HB9DX 123,152 424 86 C
Cauthan Fladda	TE1T (TI4SU.op)	1,134,716 1877 144 D	Croatia 9A1CCY (9A3NM.op)	HB9DX 123,152 424 86 C HB9APJ 20,748 124 42 C
Southern Florida	TE1T (TI4SU,op) 155,526 572 69 C	1,134,716 1877 144 D	9A1CCY (9A3NM,op) 957,768 802 42 C	HB9DX 123,152 424 86 C HB9APJ 20,748 124 42 C Italy
AC4CT 195,656 690 74 B WK4F 11,648 84 32 B	155,526 572 69 C Antigua and Barbuda	7,134,716 1877 144 D	9A1CCY (9A3NM.op) 957.768 802 42 C 9A2EY 4,480 94 16 C 9A1CRT (9A2* DQ.HO,LJ,MP,NJ,OG,	HB9DX 123,152 424 86 C HB9APJ 20,748 124 42 C Italy ISBR 807,946 1438 167 A IK1GKE 80,344 284 83 A
AC4CT 195,656 690 74 B WK4F 11,648 84 32 B WB4TDH 402,591 711 133 C	155,526 572 69 C	1,134,716 1877 144 D Zone 19 European Russia UAINDV 53,991 258 63 A	9A1CCY (9A3NM,op) 957,768 802 42 C 9A2EY 4,480 94 16 C 9A1CRT (9A2* DQ,HO,LJ,MP,NJ,OG, 9A3MQ,ops)	H99DX 123,152 424 86 C HB9APJ 20,748 124 42 C Italy IGSR 807,946 1438 167 A IK1GKE 80,344 284 83 A IK2CFH 508,212 1082 114 B
AC4CT 195,656 690 74 B WK4F 11,648 84 32 B WB4TDH 402,591 711 133 C WD4AHZ 378,566 791 122 C	185,526 572 59 C Antigua and Barbuda V29JB (W6UN,op) 38,650 261 42 A Turks and Caicos Islands	1,134,716 1877 144 D Zone 19 European Russia UA1NDV 53,991 258 63 A UA1NDY 249,070 607 118 C 79,518 429 58 C	9A1CCY (9A3NM.op) 957.768 802 42 C 9A2EY 4,480 94 16 C 9A1CRT (9A2* DQ.HO,LJ,MP,NJ,OG,	H99DX 123,152 424 86 C HB9APJ 20,748 124 42 C Italy IGSR 807,946 1438 167 A IK1GKE 80,344 264 83 A IK2CFH 508,212 1082 114 6 IR0C (IK0AZG,op) 321,215 85 85 IK2TTO 198,268 551 97 B
ACACT 195,656 690 74 8 WK4F 111,648 84 32 8 WB4TDH 402,591 711 133 C WD4AHZ 378,566 791 122 C Tennessee AANNU 331,315 765 115 8	185,526 572 58 C Antigua and Barbuda V29JB (W0UN,op) 38,850 261 42 A Turks and Calcos Islands VP5JM 547,119 1427 93 B	1,134,716 1877 144 D Zone 19 European Russia UAINDV 53,991 258 63 A UAINDV 249,570 607 118 C 4K3CIL 79,518 429 58 C UXIA (RVIAW,RWIAC,LOAIs AIL,ZARL,	9A1CCY (9A3NM.op) 957,768 802 42 C 9A2EY 957,768 802 42 C 9A1CRT (9A2E DQ,HO,LJ,MP,NJ,OG, 9A3MQ,ops) 1,217.610 1886 163 D Federal Republic of Germany D12MEH 634,230 1120 145 A	H99IX 123,152 424 86 C H89APJ 20,748 124 42 C T T T T T T T T T T T T T T T T T T
AC4CT 195,655 690 74 8 WK4F 11,648 84 32 B WB4TDH 402,551 711 133 C WD4AHZ 378,566 791 122 C Tennessee AANU 331,315 765 115 B KE2JO 122,724 365 84 B KAMIWG 85,342 286 71 B	155,526 572 59 C Antigua and Barbuda V29JB (W0UN,op) 38,650 261 42 A Turks and Calcos Islands VPSJM 547,119 1427 93 B Bermuda	1,134,716 1877 144 D Zone 19 European Russia UA1NDV 53,991 258 63 A UA1NDY 249,070 607 118 C 79,518 429 58 C	9A1CCY (9A3NM.op) 957,768 802 42 C 9A2EY 4,480 94 16 C 9A1CRT (9A2* DQ,HO,LJ,MP,NJ,OG, 9A3MQ,ops) 1,217,610 1886 163 D Federal Republic of Germany D12MEH 634,230 1120 145 A D13V7L 119,338 327 94 A D12AYI 71,504 252 82 A	H99IX 123,152 424 86 C H89AP 20,748 124 42 C T Italy IG8R 80,744 1438 167 A IK1GKE 80,344 284 83 A IK2CFH 508,212 1082 114 6 IR3C (IK9AZG,512 835 85 97 B IK1NPH 68,928 382 48 B IK1NPH 54,928 181 97 B
ACACT 195,656 690 74 8 WK4F 11,648 84 32 B WB4TDH 402,591 711 133 C WD4AHZ 378,566 791 122 C Tennessee AAANU 331,315 765 115 8 KE2JO 122,724 365 84 B KA4IWG 85,342 286 71 B KS2X 55,605 259 55 B	185,526 572 58 C Antigua and Barbuda V29JB (W0UN,op) 38,850 261 42 A Turks and Calcos Islands V95JM 547,119 1427 93 B Bermuda WA1AWJ/VP9 14,076 101 36 A	1,124,716 1877 144 D Zone 19 European Russia UAINDV 53,991 258 63 A UAINDV 249,570 607 118 C 4K3OLL 79,518 429 58 C UX1A (RV1AW,RW1AC,UA1e ALZ,ARL, DX,UV1AA,UW1AE,UA1-159-823,0ps) 6,065,388 5018 302 D	9A1CCY (9A3NM.op) 957,768 802 42 C 9A2EY 957,768 802 42 C 9A1CRT (9A2E DQ.HO,L.J,MP,NJ,OG, 9A3MQ,ops) 1,217.610 1886 163 D Federal Republic of Germany D12MEH 634,230 1120 145 A D1.3V7L 118,338 327 94 A D1.2AYI 71,504 252 82 A DLETO 68,938 270 74 A	H99DX 123,152 424 86 C H89APJ 20,748 124 42 C T Taly IGSR 807,946 1438 167 A IK1GKE 80,344 224 83 A IK2CFH 508,212 1082 114 6 IR9C (IK0AZG,op) 321,215 835 85 B IK2TTO 198,268 551 97 B IK4QJH 111,872 370 92 B IK4QJH 111,872 370 92 B IK1NPH 58,928 382 48 B
ACACT 195,655 690 74 8 WK4F 11,648 84 32 8 WB4TDH 402,551 711 133 C WD4AHZ 378,566 791 122 C Tennessee AANIU 331,315 765 115 8 KEZJO 122,724 365 84 B KAJLYR 55,605 259 55 B WAGGG 6,532 46 14 8 K4LYA 163,939 611 71 C	185,526 572 59 C	Tane 19 European Russis UAINDV 53,991 258 63 A UAINDV 249,570 607 118 C 4K3OLL 79,518 429 58 C UXIA (RVIAW, RWIAC, LATE ALZ, ALZ, BL, LATE, BX, UVIAA, UWIAE, UAI-168-823, ops) 6,065,388 5018 302 D Zone 20	9A1CCY (9A3NM.op) 9A2EY	H99IX 123,152 424 86 C H89APJ 20,748 124 42 C T H3APJ 20,748 124 42 C T H3APJ 20,746 1438 167 A K2CFH 508,212 1082 114 8 H3CC (K6AZG,op) 321,215 835 85 8 K2CFT 198,268 551 97 B K40JH 111,672 370 92 B K1NPH 68,928 382 48 B H3HT 54,223 181 97 B K1SLE 41,907 188 61 B KAJMS 33,801 181 57 B K5/FVY 15,312 138 33 B
ACACT 195.656 690 74 8 WK4F 11,648 84 32 8 WB4TDH 402,591 711 133 C WD4AHZ 378,566 791 122 C Tennessee AANNU 331,315 765 115 8 KE2JO 122,724 365 84 B KA4IWG 85,342 286 71 B KS2X 55,605 259 55 B W40GG 6,532 46 14 B K4LTA 163,939 611 71 C Virginia	185,526 572 69 C	T,134,716 1877 144 D Zone 19 European Russia UA1NDV 54,991 258 63 A UA1NDY 249,970 607 118 C 4K3OLL 79,518 429 58 C UX1A (RV1AW,RW1AC,UA1s ALZ,ARL, BX,UV1AA,UW1AE,UA1-198-823,ops) 6,065,368 5018 302 D Zone 20 Asiatic Russia RSX (UA9s XFY,XLZ,XMC,ops)	9A1CCY (9A3NM.op) 9A2EY	H99IJX 123,152 424 86 C H89APJ 20,748 124 42 C C H84PAPJ 20,748 124 42 C C H84PAPJ 20,748 124 42 C C H84PAPJ 20,746 1438 167 A K2CFH 508,212 1082 114 8 K2CFH 508,212 1082 114 8 K2CFH 508,215 835 85 8 K2TTO 198,268 551 97 B K14DJH 111,872 370 92 B K14PH 68,928 382 48 B K4DJH 54,927 181 97 B K1SLE 41,907 188 61 B KAUJH 54,927 38,801 181 57 B K1SLE 41,907 188 61 B KAUJH 15,312 138 33 B K1CFBV 17,352 70 42 B K1CFBV 18,312 71 36 B
ACACT 195,656 690 74 8 WK4F 11,648 84 32 8 WB4TDH 402,591 711 133 C WD4AHZ 378,566 791 122 C Tennessee AANNU 331,315 765 115 8 KE2JO 122,724 365 84 B KAJWG 85,342 286 71 B KS2X 55,605 259 55 B W4OGG 6,532 46 14 B K4LTA 163,39 611 71 C Virginia KAARRU 75,420 339 60 A WB2MQT 50,165 159 79 B	185,526 572 58 C	T,134,716 1877 144 D Zone 19 European Russia UAINDV 53,991 258 63 A UAINDY 249,570 607 118 C 4K3OLL 79,518 429 58 C UX1A (RV1AW,RW1AC,UA1s AIL,ARL, BX,UV1AA,UW1AE,UA1-169-823,ops) 6,065,368 5018 302 D Zone 20 Asiatic Russia RSX (UA98 XFY,XLZ,XMC,ops) 501,710 1581 110 D EX9X (UA98 XC,XFR,ops)	9A1CCY (9A3NM.op) 9A2EY	H99IJX 123,152 424 86 C H89APJ 20,748 124 42 C C T T T T T T T T T T T T T T T T T
ACACT 195,656 690 74 B WK4F 11,648 84 32 B W84TDH 402,591 711 133 C Tempessee AAANU 331,315 755 15 B KE2JO 122,724 365 84 B KA2JO 25,760 259 55 B W40GG 6,532 46 14 B K4LTA 163,939 61 71 C Virginia KAARRU 75,420 339 60 A WB2NQT 50,185 159 79 B KQAAX 48,864 174 48 B	185,826 572 58 C	1,134,716 1877 144 D Zone 19 European Russia UAINDV 53,991 258 63 A UAINDV 249,570 607 118 C 4K3OLL 79,518 429 58 C UX1A (RV1AW,RW1AC,UATs ALZ,ARL, EX,UV1AA,UW1AE,UAT-1498-823,0ps) 6,065,368 5018 302 D Zone 20 Asiatic Russia RSX (UA9s XFY,XLZ,XMC,ops) 501,710 1581 110 D	9A1CCY (9A3NM.op) 9A2EY	H99DX 123,152 424 86 C H89APJ 20,748 124 42 C Italy 138R 80,748 1438 167 A IK1GKE 80,344 264 83 A IK2CFH 508,212 1082 114 6 IR3C (IK0AZG,op) 22,215 855 85 85 85 85 85 85 85 85 85 85 85 8
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ACACT 195,656 690 74 8 WK4F 11,648 84 32 82 WB4TDH 402,591 711 133 C Temmessee AA4NU 331,315 765 115 8 KEZJO 12,724 85 84 8 84 82 86 71 8 KEZJO 15,704 17 17 C WG4GG 6,522 46 14 8 K4LTA 163,939 611 71 C WIGHG 17 17 C WIGHG 1	185,526 572 58 C	Table Tabl	9A1CCY (9A3NM.op) 9A2EY 4.480 94 16 C 9A1CRT (9A2E DC,HO,LJ,MP,NJ,OG, 9A3MO,ops) 1,217.610 1886 163 D Federal Republic of Germany DL2MEH 634.230 1120 145 A DJ.3VZL 115,338 327 94 A DL3DAYZL 115,338 327 95 A DL3DAYZL 15,338 327 95 A DL3DAYZL 115,338 327 95 A DL3DAYZL 115,338 327 94 A DL3DAYZL 115,338 327 95 A DL3DAYZL 115,338 327 95 A DL3DAYZL 115,338 327 94 A DL3DAYZL 115,338 327 94 A DL3DAYZL 115,338 327 94 A DL3DAYZL 115,338 327 95 A DL3DAYZL 115,338 327 95 A DL3DAYZL 115,338 327 95 A DL3DAY 15,6160 273 65 A DL3DAY 13,601 123 29 A Y24SH 65,160 273 65 A DL3DAY 13,601 123 29 A Y25STJ 6,771 22 A DL3DAY 1,792 55 16 A DL2DAY 1,792 55 16 A DL3DAY 1,792 53 15 A DL3DAY 1,792 606 50 B DL3DAY 1,794 806 122 B Y28LN 2,71,404 933 108 B DL3DAY 1,794 94 94 94 94 94 94 94 94 94 94 94 94 9	H89DX 123,152 424 86 C C H89APJ 20,748 124 42 C C Italy IGAR 80,344 224 83 A KIZCEH 508,212 1082 114 8 IROC (IK0AZG,op) IKATTO 198,268 551 97 B KIXTHO 198,268 551 97 B KIXTHO 118,72 370 92 B KIXTHO 154,223 181 97 B KIXTHO 154,233 181 97 C KIXTHO 154,233 181 97 C KIXTHO 154,233 181 97 C KIXTHO 154,233 183 183 35 C KIXTHO 154,233 168 35 C K
ACACT 195,656 690 74 B WK4F 11,648 84 32 WA4TDH 402,591 711 133 C Temmessee AAANU 331,315 765 15 B KE2JO 365 84 B KA2MU 351,342 286 71 B KS2X 55,605 259 55 MACATO 163,939 61 71 71 C Virginia KA4TRU 75,420 399 60 A WB2ROT 50,185 159 79 B KA4TW 48,864 174 48 B KB1GW 30,039 161 51 87 KG4AX 48,864 174 48 B KB1GW 30,039 161 51 87 KG4AX 48,864 174 48 B KB1GW 30,039 161 51 68 C WAXD 68,572 312 62 C WA4UAZ 45,609 180 69 C WA5WA 68,572 312 62 C WA4UAZ 45,609 180 69 C WA5WA 68,572 212 62 C WA5WA 68,572 212	185,526 572 58 C	Table Tabl	9A1CCY (9A3NM.op) 9A2EY 4.480 94 16 C 9A2EY 4.480 94 16 C 9A1CRT (9A2E DC,HO,LJ,MP,NJ,OG, 9A3MG,ops) 1,217.610 1886 163 D Federal Republic of Germany D12MEH 634.230 1120 145 A D13V71. 118,338 327 94 A D12AY1 71,504 252 82 A D12BTO 68,936 270 74 A D13HRA 65,570 254 79 A Y24SH 56,160 273 65 A D12HRA 65,570 254 79 A Y24SH 56,160 273 65 A D12DE 40,704 219 53 A D12DE 40,704 219 22 A D13DE 40,704 219 22 A D13DE 50 370 148 306 122 B Y28LN 271,404 633 108 52 B Y28LN 271,404 633 108 65 50 B Y28LN 271,404 633 108 65 60 B Y28LN 271,404 633 108 60 B Y28LN 271,404 63	H89DX 123,152 424 86 C H89APJ 20,748 124 42 C C Italy ISAR 80,344 224 83 A KICCFH 508,212 1082 114 6 IR9C (IK0AZG,op) K2170 198,268 551 97 B IK4QJH 11,872 370 92 B IK4QJH 11,872 310 92 B IK1NPH 58,928 382 48 B IK1NPH 54,223 181 97 B IK1NPH 54,223 182 193 33 B IK1NPH 15,312 138 33 B IK1NPH 15,312

	64,424	508 1 502	02 A 95 A	Kaliningrad UA2FBR 367,895	592	55 E	Moldova UOSON UOSOA	130,891 90,240		83 A 60 C	١.	Cyprús 584ADA 1,601,60 C46R (584s ACY,WN	l,aps)			524BJ 524TT	17,255 324,750	109 970	35 67
KIFSM	85,000	395 324	79 A 85 A	European Russia UA3RAR 1,293,872 UX3D (UA3DPX,00)	1547	193 A	Latvia YLZKO	571,020	1190	124 A		724,98 Lebanon	0 2531	119	Đ	Zone 50 Philippines			
KSTEG KSIA	72,890	312 279	83 A 74 A	503,040 RA6LW 204,323		131 A	YL2SM YL2SM YL2GVW	300,803 3,808	1240	57 A		OD5/SP1MHV 43,55	2 287	32	A	DUSHF	81,450	33 \$	50
K1FAU K1BB K3TZW :	30,316 22,260 203,516	154 192 557	53 A 35 A 83 B	UA17AN 111,804 RA3RFH 93,996	382	84 A	YL2EC	113,176 ps) 204,660	336	94 C 90 D	;	Zone 41				Zone 51			
K3CTA	15,300 352,880	142	36 B	UA6LP 45,084 RA3VA 44,988	268	51 A	Zone 3)				India VU2NBT (AA4U,op)				Papua New Papux	Guinea 801,600		120
KIVD 2		612	104 C 195 C	UA1TFG 91,204 UA3GM 18,384	106	58 A	Europea	n Russia				481,86 VU2UR 22,64	9 1268 5 153		Ċ	Zone 53			
K3GB 1	02.261	349 311	93 C 89 C	UA3SBW 12,308 UX68 1,239,087		34 A	UW4WE	958,114 87,984	359	72 C		Zone 44				Malawi			
CZHI		341 260	91 C 65 C	RUSY/RW9AB 221,312 UA4NC 162,800	646 515	112 E	WAZ.ops	(RW4WA,UA 877,195				China				7Q7XX Zimbabwe	36,374	285	28
CSCAB C2BNX	37.392	298 258	50 G 38 G 50 C	UA4LJ 151,308 UA6BPJ 116,544	511	81 E	Asiatic F	lussia 120,120	408	70 A		BZ4DJW 38,82 Korea	27 258	i 41	ь	Z21HS	29,184	246	24
CSTAY CSCDN CSCWF	30,750 24,050 16,512	191 189 207	50 C 50 G 48 G	UV3DCR 53,444 UA3SBJ 37,950	341	62 E	UZ9MXM UA9SDK	24,211 193,930	292 1048	31 A 55 B		HLSBUV 8,85 HLØK (HL1AXK,HL25			B	Zone 54			
SZBU SZBU	14,292 14,288	100 127	36 C	HA3DNC 16,832 UA4SDT 16,523		32 E	HASC (UV	9CAZ,UA9-1 690,928	1311 1311	7,ops) 112 D		HL4CGI,ops) 78,98	6 24!		D	Indonesia YB3ASQ	111,825	371	63
TFRG GTUM	9,352 2,028	106 77	12 C	EX3A (UW3AA,op) 876,860		170 0	Turkme: UR8BO	ilstan 7,886	101	18 G		Zone 45				YC7BVY YB3OSE	22,755 43,549	133 243	37
1AOU 2PBG	1,812 1,484	45 28	12 C	UABHPW 574,126 UA1AUA 376,540	782	134 (Uzbekis		101	10 0		Japan JH7PKU 857,43	iD 164:	3 110	A	YBSFEA YBSZZ (YCSA	21,867	123	
BWST IA (OK Is D	180	29	4 C	RA4HX 216,910 RA3PP 194,900	577	109 (Oluzion	281,688	681	88 B		JH4UHW 500,50 JR4GPA 238,65	7 69	7:3	A		10,168	328	-31
	090,431	1865	153 D	UA4AHA 120,105 RA3NB 109,716	393	85 (RLØP (UL	PC,ep)		~~ .		JA6BIF 184,70 JA1KVT 150,66	39 42°	77	A	Zone 55			
SKMB (+OK	2BQZ) 47,100	219	50 D	RASRN 103,840 UW6LY 80,585	334	110 (71 (55 t	U1.78N	263,952 89,638	317	65 C	;	JQ1NGT 143,66 JH3NZC 79,86	32 35	F 51	A	Australia VK8AV	146,124	390	Ħŧ
ovenia 3DZG	49.077	255	57 A	UW3DW 60,720 RW3QA 40,848 UA3VRP 32,832	253	55 (48 (48 (UL7-016-		-	122 D		JA18UI 70,75 JA9YAV 48,90 JL1MWI 23,56	6 20	3 57	A A A	VK4TT	12,954	164	17
	991,935		141 B	UVSABN 31,950 UA4QK 25,476	179	50 (44 (Kirghizi		1040	ize U		JA3JOT 17,07 JI7OED 16,12	70 12	30	A	Zone 57			
	934,768 20,026	1596 152	146 B 38 B	UA1ANA 22,950 RA6YJ 20,300	105	54 (71 (UM8MIG	83,884	268	67 B	3	JG1RDV 10,42 JM1NKT 8,00	28 6	33	A	South Afric ZS6HO	4,510	47	55
3EW	882,024	1393	156 C	UASTAG 20,132 UVSDRU 19,659	215	28 (Zone 3					JA6QDU 4,78 JA2QVP 2,50	38 5 38 3	8 19	A	Zone 58			
3EO	260,442		126 Č	UA3TU 18,352 UA3TAM 15,708	74 158	74 (28 (Asiatic I	639,600		123 C	;	JASWFQ 13 JA78EW 180,3	28 12 85	9 4 5 44	B	Australia			
	293,585	971	71 A	UV6AOB 14,280 UA4AO 10,395	190 i 87	28 0 55 0	RA9HO	24,540		60 C	>	JA3LDH 102,73 JH7QXJ 83,94	46 34	5 51	8	VK6BWI	109,311 1,188	24	11
OTCE OUK	87,856 24,168	324 120	76 A	UA3MIF 7,669 UA3SDN 4,759	150	33 (318,354	746	97 C)	JH1UUT 82,21 JA4DUD 54,11	15 28 14 20	9 56	8	VK6ANC (VK	5s JIP,TKI 93,692		
2UKB 6NVK	41,536 27,585	178 203	64 B	EZ5I. (UA6s LO,LV,US UV6LPL,UA6-150-11	35s IBG 03.UA6	,ITW, 150	Zone 3	2				JL1DRX 38,1: JR7LVK 16,1:	2B 10	4 36	В	Zone 59			
IJXC SEJJ BHTQ	25,348 17,278	157 86	46 B 53 B 38 B	1403,ops) 2,116,980			Mongoli			an c		JA9BOH 15,91 JA9AD 13,71 JM1LAW 13,44	80 10	32	В	Australia			
9HZF 7FQ1	16,530 12,753 11,359	110 99 100	39 B	1.IZ6HWA (UA6HSV,U 236,391	₹ 667	107 (JT1/JI2MI	D 154,586 102,718		37 C 58 C		JM1LAW 13,4- JH2WHS 11,1: JA4DHN 8,60	29 8	7 31	₿	VKZAYK VKZAPK	137,724 584,218	1023	118
BUFB BOON	9,386 8,242	83 89	26 B	UZ3PWJ (UA3= PLS,F 186,224	556	i) 113 t	Asiatic 1 EXOS (UA					JA1ASO 6,4: JA9GHC 5,8:	35 4	7 33	В	VKZAYD	169,998	408	87
7HTA 9DI	7,752 4,224	72 56	38 B	UZ3WWO (RA3s WC0 UA3-135-665,ops 57,792		64 1	•	1,101,168	1742	144 ()	JA2BEY 5,3 7J1AJH (AI8A,op)				Zone 60			
MDY CBG	3,910 2,453	44 59	23 B 19 B	UZ3DZD (RV3DA,ŪA3	-142-18	396,ops) 64	Zone 3	-				JQ1XDO 3,91	90 4	7 20	В	New Zealar ZLZAGY	46,736		
61EQ 9VEJ	1,196 603	22 19	13 B 9 B	Ukraine			UACUAG	Quasia 90,709		71 (2	JESJVH 2,69 JH1RMH 2,29	04 2	5 19	В	ZI.1AIZ	41,646	139	66
9BBH 6EIY	183,600 143,075	428	108 C 97 C	UT4UZ 1,275,092 RT91 (RB5IM,op)				46,475	227	55 C		JA15TY 2,1-7K2DOD 1,7	84 2	2 18	В	Zone 61 Midway Isl	end		
3HRN 3HC	95,228	383	154 C 76 C	1,239,480 UT5UGR 1,209,27	1743	209						JR1MRG 8	33 2 05 1 00 4	5 11	8	NH6YK/KH4	282	11	6
2JGK 6BEN	64,288 68,250	478 260	64 C 78 C	UBSFAN 491,409 UB4JHE 222,889	733	107	UWELIE	228,440	701	74 #		JA2GHP 3	67 1		В	Hawaiian I: WV7T/KH8	siands 49,532	182	58
18 (SP1AE	34,854	298	37 C 64 C	UY5TE 182,016 RB5HY 184,856 UB4HZ 89,801	3 411	105	PAGEA	20,128 698,289	1110		;	JF2UPM 1: JR3KAH		a 3		NHSHF AH6JF	2,372 139,520	123	34
SFAR 88AB 3NYG	28,864 28,305	123	64 C 37 C 34 C	UB4HZ 89,80° RB5ICY 84,180 RB5EL 57,220	409	69 .	\	162,270	455	90 (7	JA1NUT 658,69 JH7WKQ 631,30	9 6 102 58 124		Ç.	NH6DV WH6BC (+A)	6,153	61	21
SLZC SPLD (SP3:	10,030 5,481 CB.F.B.	118 63 IBM.SI	29 ¢	RB4EO 56,889 UB3EC 49,890	273	63	20lie 3					JADONJ 388,8 JL2LOR 327,0	96 80	1 88	Ċ		280,148	928	57
	449,748	842	156 D	RB4INR 47,12 RB5UN 40,66	3 254	88	LIAMZINA	252,648	665	87 (9	JK1GKG 171,8 JE9UXR 137,8	80 43	1 72		Zone 63			
omania 20FA	234,702	705		HY7D 1,257,450 HB4LAD 90,090	1995	150	3 7	6				JA9CWJ 137,0 JE2WEN 120,7	92 32	6 84	· C	French Pos FOSIW	510,600	1050	100
77LFV 55BQ	44,784 11,180	254 194	72 A 30 A	UB5QMA 95,704 FIB11F 34,684) 21B 4 22B	42 48	Canary			323 (^	JA5APU I11,8 JA1RKI 75,2 JE4VRF 80,9	10 25	4 69	CO	FOOFR (WB6	RZK,op) 54,600	372	30
2OY 2DBI	6,851 5,456	57 114	31 A 22 A	HB5TB\$ 5,910 UB5LBX 1,930	6 102 6 34	29 15	EASURL	EA1AK.cp)				JE4VRF 80,9: JH5OXF 59,6: JHØEPI 55,8	74 27	1 51	C	Zone 64			
7LCX 6JN	3,900 88,125	91 325	20 A 75 B	UB5VAP 1,714 RY0F (RB5FF.op)	8 40		EASSGY	246,616 198,121 16,590	523	77	В	JR70MD/2 54,2 JS10YN 48.9	19 23 19 20	9 53	C	Guam	an en	44	
3RU 9HT	62,050 19,530 10,304	304 114 86	73 B 45 B 32 B	919,36 UT2L (UB5LCV.op)		226	´		.r +B8	ar t	u	JA1BNW 46,6 JA1WYQ 37,1	40 24 22 13	8 40 8 69	C	KH2T	26,096	172	26
7NE 8ROO 9FEH	8,894 8,522	116 96	27 B 22 B	706,52 RB5ZC 411,13	8 834	151 146	Davissa	=				JA4BAA 36,6 JR7CJO 23,2	85 15 20 1 <i>2</i>	3 55 4 45	C	Zone 65 Federal St	ator of B	llines-	لمما
4ZF 5DAS	88,924 18,936	297 200	86 C	UB4IX 297,52 UB5MLP 297,31:	4 689	122		78,000 12,582				JA2EJI 16,1 JR4ISK 13,8	54 9 89 8	4 41 2 43	ç	V63GM	26,048		
BMI 4AAC	1,776	111	26 C	UTSJAJ 211,55 UBSEF 154,39 UBSBCJ 88,13	7 479	103	; CUBMIC	T18OH.op) 1.492,590				JM6VWR 10,2 JA2MOG 5,8	14 B	1 19	(C)	Zone 66			
5A (YO5s 0	ZUQ,TE,oj 115,851	D8)		UB3MP 59,02	5 262 4 312 6 164	62	Spain	,				JIBMCA 5,5 JAGAXA 4,3	80 5 93 4	7 20 5 23	C	Ascension		4~	
4KBJ (YO4 3V,RXX,op	s CVW.R0	CĞ,AD	N,REC,	UBSTN 45,27 UT5UJY 33,12 RB4EK 20,18	258	36	EATEX	129,672 3,480	0 45	36 / 20 / 72 8		JA1AAT 2,3 JF1SQC 1,5	29 3 12 2	5 23 4 17 4 18 4 11	C	ZDSLII	1,037,088	2014	104
7KAJ (YO7	106,760	403 U,ops	85 D	RT5UE 16,11 UB4IBF 10,13	5 141	34	EA3GCJ AM1GT	155,952 120,950	2 572 0 654	59 1	В	JA4AQR 1,0 JJ11.RD 1,0 JH1NXU 1,0	45 2	4 11 5 11 0 12	C				
	88,788	84	84 D	UB4MK1 8,90 UB5VK 2,65	1 109	23	AMIET	105,303 29, 2 33	2 358 2 148	58 1	B B	JE3CYH 9	13 1	9 11	C	Checklogs AM1FDI, AM		SDIT.	AM5F
igoslavia IZAV I	157,518	1720	168 A	RYVO (RB5s EX,QNA QW_UB0QQ,ops)	, ORO, Č		AMSDIT AO10FD	16,634 15,475	9 211	23 1	B	JG15VO 1	25	5 6 5 4	C	AMBRYÓ CO	YORK CT	1D.IZ I	DESM
J7KM J1KN	70,725 19,800	280 127	75 A 50 B	2,932,44 4KSZL (UB4FA.RB5s)	3286 FF,FT.2	210 M,UB5	AMZOOM	7,444 C/B 3,314	8 52	21 I	B	JA3YBF (JF4FUF.JC		(sg		DLIAPA, DL DL7UEO, HF KITN, K8FM LUBER, LUB	OPOL, IKS KARINX,	SCB, LATIE	JR1X LA7
17LS الباءًا 17SF	253,422 170,145 78,258	439	117 C 95 C 73 C	FBV,FJF,ops)			EASEFV AMSWU (2,704 EA5WU,op) 608.60				Zone 46			_	QDSEH, OE1	HCE, LZ3 BB, OGB	MIL, O	VIA, HONE
75F 1AC	78,256 14,744	312 90	73 C	2,711,52 UB3JWW (UB2JZ,UB ops) 1,189,37	7 1800	189	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	695,694 31,414	6 194	42 (C	Nigeria				OKSTOX, ON PASTV, PAST	JV, PT2NI	SZM, O P, PY2	Z5P/ NER
ne 29				UB7W (UB5WCX,UB5 068-997,ops)892,48	is -068- 9 1427	996,- ' 169	EA3GF	14,351 840 841 AG	0 22	12 (¢	N9MDW/5N6 48,6	75 26	3 35	В	OKSTOX, ON PARTY, PART PYSOJI, RAT RA4LAH, RA 4, SMRNO.	AI, RASZI SJP, RBS	M. FLA4 XW, SN	HKS,
rtonia	9 248	24	1p =	UB4FXX (RB5FK,UB) UB5-070-433.ops)	is FEQ,	FJA,	EAnga /I	A3s ALD,AQ 1,043,83; A3s CON,C	2 2188	122 1	ó	Niger 507M (JH4NMT,op)				4, SMONJO. SM4BNC, SN	6885, SI	MSMB M7MH0	uF, },
SRIM thuanla	3,345	64	15 B	419,06 UT4UWC (+ops) 2,00	9 1039 2 32	131	3	677,910	0 1563	118 i	D		70 188	4 95	I A	SPIDMD, SP	ZAHD, SE	PECZ	่อก
5R (LY38P	943,189	1389	169 A	Belarus UC2AGN 1,73	7 73	. 9	F 4 (4) 11 1	: Islands 14,474	4 207	46	В	Zone 47	Dan	lic		4, SMONJO. SM4BNC, SM SM6BDS, SP SP1DMD, SF SP4CMW, SI UA1NDX, UA UA4NCI, UA UB5XAN, UII UZ3ZK, VE11 V26ZW, V28	SNOS, S	, oroj MASE, Sžilb	, 500 ANO
1BC 2BNC	17,510 148,928	132 474	34 A 104 B	UC2AGN 1,73 UC2AFC 411,57 UC2OS 20,65	5 1083	101			- '			Central African : TL8NG 57,1	Repub 68 32		5 B	UBSXAN, UK	AIW, UV	SAIN, L	34.0₁ 1∧30 1wn.
/28QJ /2ZO (LYR-1	105,381 [751_op]	405	81 B	Azerbaijan			israel					Zone 48				Y26SW, Y28 Y89KP, YC0			
repaq	912,784 156,484	604	178 C 88 C	UD6D/Y42DA 141,68	0 458	89	3 4X4VF	2,31	0 110	21 i	В	Kenya				YO7KJS, YO	BFR, ZA1	М,	
Y2BLA	32,536	213	56 C									5Z4B1 1,033,9	65 190	5 111	В				115