

1997 IARU HF World Championship Results

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This year's contest won't go down in the record books by any means, but everyone reported having a good time. Even with all the complaints about poor propagation, band conditions were actually quite good for that point in the sunspot cycle.

Twenty meters was the life blood of this year's contest. You can usually count on 20 coming through, and it surely did. It was quite easy for W/VE stations to work into Europe, and rack up some pretty high QSO and multiplier totals, even from modest stations. Franklin, KB8IBS, reports, "Twenty meters was really the hot spot this year. The band was open to Europe most of the contest."

Ten and 15 meters also enjoyed some nice band openings. During this year's contest, Europeans were reporting good openings on both bands into North America. If you didn't rack up some of these easy QSOs, you missed out on a few good openings. In a 24-hour contest, it's important that you try not to miss any band openings—you don't get a second chance to exploit them, as you might in a 48-hour contest.

The key to any contest is participation. Even with great band openings, without good participation there won't be those endless pileups of stations to work. That's the problem with some of the less popular contests—a lack of stations to work. This isn't a problem with the IARU HF World Championship. This year's Championship garnered substantial participation. Although it can't quite compare with last year's bountiful harvest of 1503 entries, 1329 entries is still a worthy number. (Last year, we had the WRTC stations attracting a lot of folks, and creating excitement on

the bands.) CW continues to be the most popular entry category, followed by phone and mixed modes.

We had 31 IARU member-society headquarters stations submitting their logs this year, with 14 breaking the 1-million point mark. Eighth place finishers last year, EM5HQ, got their act together and finished in first place among the headquarters stations. The Germans at DAØHQ completed the most QSOs, but lacked the needed multiplier total for first place. They had to settle for second place with OL7HQ coming in third. All three top finishers completed over 10,000 QSOs each. What an impressive job!

The Washington based W1AW/7 finished in 13th place this year. Their effort was from Rush Drake's super station (W7RM). Another surprise was NU1AW showing up on the bands. This 11-operator IARU headquarters station finished in 10th place.

Hrane, YT1AD, operating at 3V8BB, broke the 2 million point mark to win the mixed mode category. Canada's best, VE3EJ, scored 1.7 million points and finished in second place worldwide and first in W/VE. Great going John! UA3RAR was third place in the world scoring 1.3 million points. Other W/VE stations to break in to the top ten world wide were K3MM in

Top World Scores

Mixed Mode	Score	CW Only	Score
3V8BB (YT1AD,op)	2,206,464	P40W (W2GD,op)	2,195,754
VE3EJ	1,768,200	HA3O (HA3UU,op)	1,907,486
UA3RAR	1,525,764	HG0D (HA0DU,op)	1,574,800
K3MM	1,313,340	UT4UZ	1,436,784
KW9KW (at K4VX/0)	1,300,887	OH1AF (OH1NOA,op)	1,429,914
RK9CWW	1,298,860	UN8LW (UA3DPX,op)	1,377,075
DJ0FX (OE2VEL,op)	1,296,380	LY1DS	1,355,952
KQ2M	1,216,224	IR2W (I2VXJ,op)	1,237,740
RZ9OO	1,209,990	SP7GIQ	1,199,658
RA3AUU	1,051,800	OH7MA	1,109,260

Phone Only

Call	Score	Multioperator	Score
C40M	1,806,525	H22A	4,883,725
4X2F (4Z5JK,op)	1,674,328	HG1S	3,847,788
UA2FZ	1,559,140	RZ3Q	3,191,070
OH7LNI	1,423,968	EU8T	3,019,710
LY5A (LY3MM,op)	1,198,208	HG6N	2,893,440
H25X (5B4XF,op)	1,002,393	UR4E	2,863,686
UV7D (UT7DX,op)	980,934	IR4T	2,200,656
ZW5B	901,800	UU5J	2,189,734
IR4R	764,660	OT7T	2,165,400
K1YR	695,618	RZ9AZA	2,077,208

Top W/VE Scores

Mixed Mode	Score	CW Only	Score
VE3EJ	1,768,200	N2IC	1,049,764
K3MM	1,313,345	K3ZO	1,026,855
KW9KW (at K4VX/0)	1,300,887	VE7NTT	909,832
KQ2M	1,216,224	AA4NC	880,464
N9AG	828,497	K1VUT	767,040
(at N8NR)		AA3B	713,648
N0AV	738,360	N2MM	656,742
K4AB	679,725	W7GG	652,830
N2PP	671,517	N6ZZ	642,764
W6XR	670,433	W7VJ	546,210

Multioperator

Call	Score
N3BB	1,276,464
N1BB	1,179,232
W4AN	1,068,454
K1YR	695,618
WB9Z	673,920
W7NN	511,872
N2QT	499,044
W4SVO	487,202
K3WW	453,936
AA4NU	432,160
N4UH	409,860
WA4ZXZ	402,082
KK1L	400,625



Serge, 4Z5JK, operated 4X2F. He finished second place world wide, single operator, phone only.



Gerald, OE2GEN, operated mixed mode from Austria in Zone 28.



Rizal, YC6PUP, operated mixed mode from Zone 54 in Indonesia.

fourth place, KW9KW (at K4VX/0) in fifth place, and KQ2M in eighth place.

Stavros, C40M, from Cyprus, scored 1.8 million points to take first-place world phone. Serge, 4Z5JK, operating at 4X2F, finished second place with 1.6 million

points. Igor, UA2FZ, was third with 1.5 million points. K1YR was the only W/VE to make the world top ten. Lou finished in 10th place world, and first place W/VE. Phone only was the only category in which all 10 world finishers didn't score over a

million points.

On the CW front, John, W2GD, operating at P40W, took first place world CW with 2.1 million points. Janos, HA3UU, operating at HA3O, finished in second place with 1.9 million points. Istvan, HA0DU, at HG0D, was third with 1.5 million.

In the multioperator category, the entire top ten scored over 2 million points each. The H22A crew finished in first place world with 4.8 million points. The Hungarian crew, HG1S, was second, scoring 3.8 million points. The Russian team, RZ3Q, was third with 3.1 million points.

The IARU HF World Championship offers something for everyone. You have a choice of operating CW only, phone only, both modes, single operator or multi-operator. You can contact anyone in the world for credit, with a QSO point structure emphasizing contacts with stations in other continents, but not ruling out QSOs with your own country or continent. Almost any station can be competitive in the IARU HF World Championship. It doesn't take big antennas or a lot of power. You can even earn some wallpaper. Everyone who makes at least 250 QSOs or works 50 multipliers gets a certificate. If you like competing for the top spots, the IARU HF World Championship offers some first rate competition.

See you next July 11-12 for the 1998 IARU HF World Championship.

SOAPBOX

For the first time ever Denmark was represented as a headquarters station. We only had a few operators, but it was a lot of fun. Sometimes we felt like a rare DXCC country, we had so many pileups (OZ7D). Conditions were abysmal, but a good time was had by all. We operated from a woolshed and Murphy ordered us a very heavy frost for the first 8 hours. It's amazing how woolly hats absorb audio (ZL6A). Very poor band openings and too much noise, but lots of fun (PT2AA). It was a pleasure working in this contest and representing India (AT0ITU). Bands were great. 40 and 80 were open during our midnight sun. Surprise! (VY1JA). A great contest with lots of good DX (VA3NR). Very bad conditions from Greenland. If a signal reached S 2 or 4, it was considered very strong! K7SV must have very big ears. After we made contact I discovered that I had worked him with less than 1 W! (OX/OZ8AE). It seemed like there were more stations on the air this year. I wish I could have worked

IARU Headquarters Stations

EM5HQ (DK4MS,UR5MS,UR5MA,UR5MF,UR0MM, US1TU,US2IR,US7MM,US7MQ,UT2IA,UT2ID, UT2IY,UT2UB,UT3EC,UT3EW,UT3IZ,UT3MM, UT5MB,UT5UIA,UT0MF,UX1MM,UX2MF,UX2MM, UX7MM,UX8MM,UX0MM,UX7IA,UY3IM,UY3QW, UY5QQ,ops)	12,641,940	10444	369
DA0HQ (DK4WA,DK7YY,DK8YY,DL1AOB,DL1AOQ, DL1ASA,DL1AUZ,DL1AWI,DL1DTL,DL1EMY, DL2OBF,DL2OE,DL2SAX,DL3ABL,DL3ALI, DL3APO,DL3DX,DL3OI,DL3TD,DL4AL, DL4CA,DL4LM,DL4MM,DL5ANT,DL5AOI, DL5AWI,DL5AXX,DL5LYM,DL5MX,DL5XU, DL5YY,DL6MHW,DL7AO,DL7BY,DL7IO,DL7IQ, DL7UBA,DL7URH,DL7UTM,DL7VOA,DL7VRO, DL8AKA,DL8UA,DL8DYL,DL9WAVI,ops)	10,043,970	11840	335
OL7HQ (OK1AU,OK1AXB,OK1AY,OK1CF,OK1CM, OK1CW,OK1DG,OK1DR,OK1FD,OK1FLM,OK1FUA, OK1HSK,OK1JN,OK1MD,OK1MKI,OK1MR, OK1NI,OK1RF,OK1RL,OK1RR,OK1TA,OK1TN,OK1TP, OK1WF,OK2FD,OK2XTE,ops)	9,862,632	10059	312
OM7HQ (OM3GI,OM8AA,OM8AU,OM8CW,OM5RW, OM5RM,OM3EI,OM3GB,OM2TW,OM2DX,OM2ZA, OM3BH,OM3PA,OM3PC,OM7DX,OM5ZM,OM3NA, OM5DX,OM2RA,OM3EA,OM3LU,OM3RM,OM5XX, OM5DP,OM5MZ,OM8AM,OM8FF,OM0WR,OM8FM, OM3DX,OM5CD,OM5NA,OM5CW,OM3JW,OM5FM, OM5MF,ops)	9,577,273	9981	323
9A0HQ (9A9A,9A5W,9A2EE,9A7R,9A2TN,9A6KCL, 9A4LA,9A5I,9A2OM,9A2TR,9A2SD,9A1AA,9A2VR, 9A2AJ,9A2CY,9A5AZ,9A0Z,9A3NM,9A3LG,9A2D, 9A7W,9A8A,9A3TR,9A3OS,9A2ME,9A7V,9A4RX,ops)	9,476,400	9960	318
S50HQ (S50A,S50L,S51Z0,S53BB,S53C,S53G, S53RM,S53ZO,S54E,S5500,S56M,S57AD,S57AL, S57C,S57NAG,S59A,S59L,ops)	8,179,401	8539	321
YP0A (Y02AUN,Y02AQO,Y02BBT,Y02BV,Y02BV, Y02DFA,Y02GL,Y02LDC,Y03AC,Y03APJ,Y03AV, Y03FF,Y03FU,Y03GDA,Y03ND,Y04ATW,Y04HW, Y04SI,Y04WZ,Y04XF,Y05BLA,Y05TE,Y06AWR, Y07DAA,Y08BAM,Y08BIG,Y08MI,Y08SS, Y08WW,ops)	7,473,585	7294	327
YU0HQ (YU7AC,YU7AL,YU7AV,YU7AX,YU7BJ,Y U7BW,YU7CB,YU7CM,YU7CP,YU7DR,YU7FN, YU7GO,YU7GW,YU7JX,YU7LM,YU7NW,YU7OA, YU7YG,YT7KF,YT7TY,YT7TY,YT7WA,YT7AA, YZ7UN,4N7CA,4N7DW,4N7ZZ,ops)	7,304,512	8272	304
R3HQ/6 (UA6LO,UA6LV,UA6LU,UA6LQ,UA6LFQ, UA6LCJ,UA6LTi,UA6LUQ,UA6NP,UA6ADC,RA6LW, RA6LRT,RA6LBX,RA6AX,RA6YY,RA6YDX,RA6LFO, RN6BN,RN6MM,RN6LE,RV6LNA,RV6LOB,RW6WB, RW6YY,RX6BA,RA4AJF,6,URBMA,UT6IZ,ops)	7,297,962	7412	309



The crew at N3BB finished first place W/VE multioperator. From left to right, K5NA, N5LT, N3BB, K5TR, and AB5EB.



Ken, FP/AA3GM, operated a small solar-powered station on the Island of St. Pierre.

them all. Great contest even with the poor band conditions (K16OY). I must be getting old. I couldn't stay awake for the whole thing this year. Working all the headquarters stations was fun and having NU1AW out there was a nice bonus. I look forward to more headquarters stations getting involved in the future (KQ6ES). I was surprised to find W1AW/W7 and NU1AW on the air. Great to hear them both (W6TKV). It was nice to hear Europe, but where were the South American stations (N6MI)? This was our first experience with the Championship—we really enjoyed it (NN6NN). Where were 15 and 10 Meters? I thought that the sunspots were on the way up. During the contest the flux dipped to 67 (N7VY). Conditions were okay to Europe. Not much on 15/10 Meters (K7ABV). Sure missed the WRTC as they kept the action up last year (N7WA). Good results on 80, even with the usual summer noise. Ten was disappointing. Please send sunspots (N6ZZ). The contest seems to have taken on a new life. Good participation especially from Eastern Europe. Nothing from Africa. Very little from South

America, Central America or the Caribbean. Fifteen meters wasn't playing yet. Maybe next year (K5XR). Toughest contest I've ever worked QRP. Everyone had their beams aimed at the DX (AE0Q). We had a fun time even though propagation was very poor (N2GA). Interesting conditions. Twenty started out pretty dead, but improved with age. Had a great opening to the Far East the last hour of the contest (K3MM). First time for me to operate from the US. It was great fun. Tnx to all for the QSOs (K2XS, DL5OBZ). A great contest. Things were very good except 15 and 10 meters were poor (WA4JUK). This remains my favorite contest (N2QT). Great to find out how well contestants can hear QRP (K8CV). My first attempt at IARU from home. A good start but we'll be back next year for more fun (KG8CW). This was my first CW effort as a DX station. Conditions were reasonably good and quite a lot of activity. Even 160 and 80 were usable despite the high summer noise levels in the Caribbean. I look forward to going back next year (V26E). Very poor conditions, but I did my job. I

had fun (YV5NWG). Thanks for the nice contest (LA9PJA). I was very happy that 15 and 10 were open at last here in the north. I like this contest very much (OH5PA). Great propagation on all bands (OH1AF). First time in this contest. Lots of stations, even on CW. Had fun, thanks (OH8BQT). Thanks for the nice contest. Propagation was very bad in Syktyvkar. I hope to see you all next year (RN9XA). Nice to be the subject of some pile-ups, a sign of the enthusiasm for this contest (F2NH). Our first try at this contest. We combined this with a BBQ for all the contest club members and had a ball. Conditions were reasonable, weather was superb and everybody could operate. It was fun for all involved. I like the mixed-mode approach. It allows specialists in both modes to participate (OT7T). Very nice contest. Worked my first US station on 10 with a simple vertical antenna. Fifteen was much better than expected (ON6ZX). It was our pleasure to bring the VERON multiplier to this contest (PA6HQ).

Scores

Scores are listed by ITU Zone and then by country, ARRL section, or Canadian Province within the zone. Line scores indicate call sign, final score, QSOs, multipliers, and entry class (A = single operator, mixed mode; B = single operator, phone only; C = single operator, CW only; D = multioperator, single transmitter).

Zone 1		KA6SGT	1,955	43	17	C	K5OW (+K5OT)		N4XR	58,900	203	76	C	K3WW	453,936	1057	112	B			
Alaska		San Joaquin Valley					N5KMR	599,040	1444	120	D	W1BH	34,496	157	64	C	W3CF	169,353	557	93	B
KL7Y	332,740	724	131	A			N6MI (at N6BN)	80,325	265	85	D					AA3B	713,648	1304	146	B	
K0DI/KL7	14,436	111	36	A			K5KHT (+WB4EEH)	43,056	284	52	D					W3BGN	69,460	412	46	C	
WL7KY	86,526	380	57	C	NN6NN (W6XK,op)	111,780	496	69	A												
Zone 2		Oklahoma					K6PG	111,439	85	41	B	W1TE	273,768	626	132	A	Maryland-DC				
Alberta		K5YAA	209,400	704	75	A	K6XU	102,534	424	69	C	K1HT	55,176	228	68	A	K3MM	1,313,340	1932	177	A
VE6SV	55,883	279	47	A	K6TTT	80,700	333	75	C	K6PY	26,158	270	29	A	K3ZO	1,026,555	1485	171	C		
VE6JJY	335,700	600	150	B	W6UC (+N6ED,N6BX)	460,742	1270	107	D	K5TT	466,490	1002	123	C	W3CP	43,296	226	66	C		
VE6IM (VE6LDX,op)	31,111	173	53	B	WM6DX (W6DPD,K6ESEL,ops)	16,340	110	43	D	W5HTK (NJSS,N1UOC,K47GLA,					NY3M	24,304	150	49	C		
VE6BF	216,864	615	96	C	KD5BA,ops)	38,138	287	38	D	N2MNC,N0NOU,KC5OKG,K40AR,											
										N1BB (+W1FJ)	16,290	104	45	C	Western Pennsylvania						
British Columbia		South Texas					W1MK	497,718	1100	117	C	W1BB (+W1FJ)	1,179,232	1674	172	D	AD8J	26,101	157	43	C
VE7XO	21,645	165	37	B	W5WPB	113,742	360	89	A	AA1ON (+N1TYF,W1RH,N1ZPE)	393,900	1105	100	D							
VE7NTT	909,832	1564	154	C	K6ZDN	10,254	113	34	B	N1TB	148,630	484	89	D	W4						
Yukon		K5XH (+W5ASP,op)	17,043	153	39	B	W0IN	10,160	70	40	D					Alabama	679,725	1621	135	A	
YV1JA	349,380	925	108	A	W5NRR	218,556	754	78	C	K4AB	50,280	330	60	A							
		N6JM	24,192	120	56	C	N1QVE	3,043	53	17	C	N5AM	99,000	337	88	C					
Zone 3		W6NKR	10,728	82	36	C	N3BB (+AB5EBS,K5NA,K5TR,NSLT)	1,276,464	2084	174	D	K4KSM	14,382	126	47	C					
Manitoba		W7					KN11 (+YV1K)	89,730	255	90	D	K7ADY	202,797	801	87	D					
VE4YU	114,062	415	82	A	W5EHH (KM5FA,AA5BT,KG5KI, KA5WSS,ops)	77,177	347	71	D	K54YT (+KV4T)	1,068,454	1632	191	D							
		Arizona					WA1VHT	12,784	118	34	B	Georgia									
Saskatchewan		AA4Q	4,011	75	21	A	KC1F	57,915	28	45	C	K4HC	270,983	807	119	B					
VE5SF	4,818	59	22	A	W7AH	15,525	103	45	B	KB4GID	401,472	932	136	C							
		K5C5AC	2,691	71	13	C	K1WID	22,895	152	54	C	KABA1	393,250	1107	110	C					
Zone 4		W7YS	45,322	215	62	C	AA1CA	20,043	145	51	C	KAOGG	126,526	489	82	C					
Quebec		NN7A	19,104	124	48	C	KC1XX (+DL7ALMV)	911,232	1518	154	D	W4AN (+W1RIR)	2,068,454	1632	191	D					
VE2AWR	64,728	302	62	A	W8		K1WT	201,000	814	100	D	Kentucky									
VE2ABO	1,557	51	9	C	KJ7FE	9,600	104	32	B	K4WW	32,913	255	53	A							
		KK7KA	11,154	100	39	C	K4CPY	64,360	258	72	B	W4LQ	37,580	250	45	B					
Ontario		Montana					K1WDO	24,043	131	49	C	K4JRC	24,943	131	49	B					
VE3EJ	1,768,200	2166	210	A	K7AVB	43,680	220	52	A	KD4Y	8,961	103	29	B							
XI3AT	491,742	1185	102	A	N9HF	14,058	116	33	A	KO4OL	1,436	42	13	B							
VE3XN	141,232	376	104	A	K9MWK	72,600	410	60	B	NAXM	100,548	363	84	C							
VE3STT	85,100	326	74	A	N2IC	1,049,764	1677	184	C	KM4FO	5,368	104	22	C							
VE3SRE	77,231	293	77	B	W0TM	42,500	874	118	C	W4CN (N4UL,N4PLE,K4AT,K4WW,ops)	76,194	468	51	D							
VE3KP	327,849	871	103	C	KG0DSDS	133,360	543	80	C												
VE3AJ7	30,316	209	44	C	AC8S	10,329	103	33	C												
VA3NR	100,385	241	85	D	W0PPF	2,688	70	16	C												
		Utah					KD2Z (+W1FJ)	317,250	1135	94	D										
Zone 5		Western Washington					W0AV	738,360	1522	140	A	North Carolina									
Greenland		AF7O	114,640	437	80	A	W0ETC	127,792	410	98	B	K4MA (at K4HA)	492,184	1292	119	A					
OX/OZ8AE	19,620	158	36	C	W0PPF	25,286	94	19	B	W4WS (N4VHK,op)	27,000	240	50	A							
							K1TTT (+WM1K)	167,684	424	103	D	N4UH	409,860	1020	115	B					
Zone 6		Western Washington					W1AV	144,000	488	80	B	WAAZXA	402,082	918	127	B					
W6		K7ZS	35,086	250	53	A	W2RLO	11,550	89	42	C	KC4YAM	59,787	267	73	B					
East Bay		KF6AVD	270	18	5	A	K2BM	173,628	468	106	C	KB4MIL	14,921	107	43	B					
NP4IW	34,600	255	40	B	W7TII	40,432	226	56	B	KU4BP	1,332	32	18	B							
K16OY	12,160	132	38	B	N7FL	29,498	172	49	B	K54XG	1,170	22	15	B							
K6AW	526,358	1060	131	C	W7VJ	546,210	1280	119	C	KU4GT	135	9	5	B							
					W7VJ	38,864	206	56	C	AA4NC	880,464	1668	156	C							
Los Angeles		N6HHT	175,498	527	94	C	KG0VW	6,228	55	36	B	NW6S	62,181	315	63	C					
KU7T	61,238	280	67	A	KG0WT	852	25	12	B	W4CC	11,600	114	29	C							
N6IPB	23,080	177	39	A	KB0B	146,060	651	70	C	Northern New Jersey											
KO6ES	59,498	308	67	C	W0WHW	40,128	250	48	C	W1GD	337,440	586	152	A							
N6GL	20,148	156	46	C	AA0BY	179,646	678	74	D	W2LRO	11,550	89	42	C							
							K2BM	173,628	468	106	C	K2BM	10,595	125	72	B					
Orange		Louisiana					W2RLO	11,550	89	42	C	W4SOF	487,202	1225	142	B					
KC6CNV	523,534	1451	106	A	W0EEE	5,076	102	18	D	K2WCA	14,742	105	A								
KN6WV	58,688	275	64	A	W0ZEM	28,296	111	72	B	K2NJKM	100,050	406	87	D							
W6TKV	39,000	325	40	B	W0UVF	1,300,887	1829	188	A	K2LQ	130,866	335	102	A							
KO6XB	11,152	100	34	B	K5GQE	117,734	405	86	B	K2WZ	58,575	257	75	A							
W1HJ	42,626	264	46	C	K5YRZ	7,280	108	20	B	K2LQ	132,200	406	100	B							
W6ZL	34,464	254	48	C	K5JWX	29,960	153	58	C	K2LQ	18,360	158	34	B							
KF6GUH	114,420	20	11	C	N5XSY	29,900	217	46	C	K2KJW	244,537	691	97	D							
N6RT	119,424	318	96	D	-200,208	450	86	D	K2WJ	224,943	617	97	C								
							W2OMV	27,511	197	41	C	K2WJ	605,430	1224	155	D					
Santa Barbara		W6BKKY	81,468	461	62	C	W2EYA	26,488	160	44	C	K4F6	336,658	798	139	D					
WA6FGV	24,024	214	39	C	W7CBB	21,402	90	50	D	K2XS (+DL5OBZ)	206,538	425	87	D							
W7CBB	6,205	101	17	C	KG0KR	58,083	311	57	C												
					K0SW	20,520	100	60	C												
Santa Clara Valley		KN5H	5,616	66	26	C	N2LQO	6,006	81	22	B										
K6XX	251,764	824	119	A	KC5OZT	384	14	12	B	KW2J	224,943	617	97	C							
N6NF	252,474	1018	87	A	W6PLJ	285	58	B													
K6GT	105,009	425	71	A	W6ISO	642,700	1197	126	C												
N6NM	84,210	373	70	A	W6JU	3															

K4PK	21,854	178	49	A	Peru	OA4DAY	43,920	170	61	B	Zone 20	RN9XA	242,010	611	90	A	Fed. Rep. of Germany	DJ0FX (OE2EV,op)	1,296,380	1755	212	A	HASWA,HA5OF,HA5MY,ops)		
K4UK	19,694	158	43	A	Venezuela	UA9XS	218,463	499	103	C	Asiatic Russia	DJ2BC	361,760	900	152	A	HABKCI (HABLZW,HG4LVS,ops)	972,314	1642	199	D	HABLZW,HG4LVS,ops)			
N2QT	499,044	920	156	B	YV5NWG	74,240	264	58	B	Zone 21	DL8ZAW	165,715	510	115	A	HAGDFR (HA4GCF,HA4GGV,	151,000	475	113	D	HA4GGV,HA4GK,ops)				
N4MM	190,848	405	128	B	YV1GUZ	3,268	36	19	B	Asiatic Russia	DL0OVL (DL4JKD,op)	165,000	560	110	A	HAG4GK (HA4GCF,HA4GGV,	10,656	125	37	D	HA4GK,ops)				
W4AU	197,410	552	95	C	YV8/KOOST	1,020	21	12	C	RK9JWV	472,527	929	111	A	HAG4GK (HA4GCF,HA4GGV,	579,150	1357	150	C	HA4GK,ops)					
W4YE	85,004	259	79	C	Zone 13	RA9JW	178,476	414	107	B	DJ0BA	91,936	916	106	A	HAG4GK (HA4GCF,HA4GGV,	118,206	494	99	C	HA4GK,ops)				
W4ZYT	77,161	307	73	C	PV8ONU	37,200	258	30	A	RW9JE	122,208	552	48	B	DJ0PA	65,170	293	98	A	HAG4GK (HA4GCF,HA4GGV,	113,791	387	113	A	HA4GK,ops)
WM4I	40,740	211	70	C	ZW1MD (PY1BOA,op)	13,072	74	38	C	Zone 27	DJ1AY	51,404	293	77	A	HAG4GK (HA4GCF,HA4GGV,	171,902	550	101	A	HA4GK,ops)				
WU4G (+W4MYA)	853,344	1558	144	D	ZW1MD (PY1BOA,op)	12,350	65	38	C	Ireland	DJ1DCI	47,669	285	73	A	HAG4GK (HA4GCF,HA4GGV,	168,498	600	99	A	HA4GK,ops)				
W5	Mississippi	1,036	74	22	B	Py1KS	1,036	74	22	B	EISDI	159,068	604	91	A	HAG4GK (HA4GCF,HA4GGV,	147,213	603	99	A	HA4GK,ops)				
K5MDX (WQ5L,KC5WCO,KC5YJI,	618,967	1489	139	D	PP7CW	13,072	74	38	C	EBGP	39,585	267	35	A	HAG4GK (HA4GCF,HA4GGV,	114,875	501	95	A	HA4GK,ops)					
W8	Michigan	13,072	74	38	C	Py7QJ	7,047	61	29	C	France	DJ1HCO	21,615	209	55	A	HAG4GK (HA4GCF,HA4GGV,	113,791	387	113	A	HA4GK,ops)			
WB8BUQ	45,825	201	65	A	PP7CI	364	26	14	C	F5NBX	384,683	927	127	A	HAG4GK (HA4GCF,HA4GGV,	10,656	125	37	D	HA4GK,ops)					
KB8/BS	72,216	332	68	B	ZW5B	901,800	1108	180	B	F5JHG	3,298	82	17	B	HAG4GK (HA4GCF,HA4GGV,	97,317	441	99	A	HA4GK,ops)					
N8CN	38,080	236	56	B	ZW1MD (PY1BOA,op)	12,350	65	38	C	F5HBW	606,785	1311	138	B	HAG4GK (HA4GCF,HA4GGV,	60,789	331	69	A	HA4GK,ops)					
KB8QO	14,328	112	36	B	LW2DFM	76,946	236	79	A	F5BBB	204,684	611	111	B	HAG4GK (HA4GCF,HA4GGV,	52,105	105	25	A	HA4GK,ops)					
K8GT	160,989	489	103	C	LW7HTJ	24,072	152	34	A	F2NH	113,974	295	98	B	HAG4GK (HA4GCF,HA4GGV,	21,756	170	42	C	HA4GK,ops)					
K8CV	30,784	202	52	C	LUM6MFD	78,884	331	52	B	F5PCP	68,580	320	90	B	HAG4GK (HA4GCF,HA4GGV,	76,450	130	25	C	HA4GK,ops)					
K8SIA	14,280	102	42	C	LU7OAJ	35,342	198	41	B	F5PSA	54,474	279	90	B	HAG4GK (HA4GCF,HA4GGV,	43,098	225	66	B	HA4GK,ops)					
K0MS	11,844	107	36	C	LT7AJ	20,167	119	43	B	F5BPK	20,944	238	22	B	HAG4GK (HA4GCF,HA4GGV,	29,196	204	82	B	HA4GK,ops)					
KG8CW (+KC8HLD)	212,928	1008	58	D	LUCE3DPV	5,612	60	23	B	F5DEM	16,200	119	37	B	HAG4GK (HA4GCF,HA4GGV,	24,090	150	55	B	HA4GK,ops)					
Ohio	3,994	51	30	B	LW1ECO	3,994	51	30	B	F5AVK	13,146	83	42	B	HAG4GK (HA4GCF,HA4GGV,	17,100	121	60	B	HA4GK,ops)					
N9AG (at N8NR)	884	26	17	B	F5CWU	5,005	63	35	B	F5TMC	(F5IN,op)	6,210	103	18	A	HAG4GK (HA4GCF,HA4GGV,	14,602	122	49	B	HA4GK,ops)				
W8UPH	59,582	331	62	A	ZP5FK (+LU6BEG)	870,828	1632	147	C	DJ1AKK	13,566	135	34	B	HAG4GK (HA4GCF,HA4GGV,	20,396	182	62	B	HA4GK,ops)					
AA8UP	21,712	120	59	A	F5JBP	564,394	1017	118	C	DJ1KUO	8,692	74	53	B	HAG4GK (HA4GCF,HA4GGV,	20,853	134	63	B	HA4GK,ops)					
WB8KKF	170,464	574	90	B	LU8HSO	69,134	255	82	C	F5JPG	540,588	1218	114	C	HAG4GK (HA4GCF,HA4GGV,	19,104	250	48	B	HA4GK,ops)					
KC8BT	48,822	188	68	B	LU1EW	48,822	188	68	B	DJ1TC	7,700	63	10	C	HAG4GK (HA4GCF,HA4GGV,	10,836	100	43	B	HA4GK,ops)					
KF8TM	89,929	275	81	C	LU1FC (LU5FSM,LU5LNU,LU1FNH,ops)	59,950	1040	101	D	DJ1VNL	4,917	75	33	B	HAG4GK (HA4GCF,HA4GGV,	15,222	22	70	B	HA4GK,ops)					
WT8P	65,720	275	81	C	LU1YY (LU1YI,LU2YAX,LU6YAR,	96,670	83	70	D	DJ2DS	3,097	53	19	C	HAG4GK (HA4GCF,HA4GGV,	11,171	106	137	B	HA4GK,ops)					
NOAA	54,208	310	44	C	LU7YAP,ops)	2,052	30	19	B	DJ2RZG	1,928	41	17	B	HAG4GK (HA4GCF,HA4GGV,	8,225	59	47	B	HA4GK,ops)					
NW8F	32,430	68	42	C	DJ2SEU	1,770	278	42	C	DJ2AL	1,770	44	15	B	HAG4GK (HA4GCF,HA4GGV,	6,600	65	40	B	HA4GK,ops)					
WB8AV (+K4LT,KU8E)	847,161	1483	147	D	DJ2LJ/A	1,144	144	88	B	DJ2LJ/A	1,488	24	24	B	HAG4GK (HA4GCF,HA4GGV,	5,270	53	26	B	HA4GK,ops)					
West Virginia	3,994	111	19	A	DJ2LJ/C	1,132	222	51	C	DJ2LJ/C	1,132	50	9	B	HAG4GK (HA4GCF,HA4GGV,	1,124	50	9	B	HA4GK,ops)					
K5ID	144,716	515	92	A	DJ2LJ/D	1,132	222	51	C	DJ2LJ/D	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
N8YY	51,150	256	62	A	DJ2LJ/E	1,132	222	51	C	DJ2LJ/E	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
KF8UW	42,412	288	46	B	DJ2LJ/F	1,132	222	51	C	DJ2LJ/F	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
WA8WV	117,468	430	78	C	DJ2LJ/G	1,132	222	51	C	DJ2LJ/G	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
K3JT	111,588	384	102	D	DJ2LJ/H	1,132	222	51	C	DJ2LJ/H	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
WB8PT	57,936	252	71	C	DJ2LJ/I	1,132	222	51	C	DJ2LJ/I	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
W9	39,872	259	64	A	DJ2LJ/J	1,132	222	51	C	DJ2LJ/J	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
Illinois	3,994	111	19	A	DJ2LJ/K	1,132	222	51	C	DJ2LJ/K	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
W9LYA	39,872	259	64	A	DJ2LJ/L	1,132	222	51	C	DJ2LJ/L	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
W9USN (WV7T,op)	3,994	111	19	A	DJ2LJ/M	1,132	222	51	C	DJ2LJ/M	1,132	10	10	C	HAG4GK (HA4GCF,HA4GGV,	1,124	36	16	C	HA4GK,ops)					
N9NW	3,102	43	22	A	DJ2LJ/N	130,086	316	99	B	DJ2LJ/N	130,086	2264	169	D	HAG4GK (HA4GCF,HA4GGV,	19,104	250	48	B	HA4GK,ops)					
WB9ZQ	67,920	1366	144	B	DJ2LJ/O	5,373	57	27	B	DJ2LJ/O	5,373	37	11	B	HAG4GK (HA4GCF,HA4GGV,	10,836	100	43	B	HA4GK,ops)					
WA9EXH	5,061	93	21	B	DJ2LJ/P	130,086	316	99	B	DJ2LJ/P	130,086	2264	169	D	HAG4GK (HA4GCF,HA4GGV,	8,225	59	47	B	HA4GK,ops)					
WB9HL	3,692	59	28	B	DJ2LJ/Q	234,048	520	106	D	DJ2LJ/Q	234,048	224	24	D	HAG4GK (HA4GCF,HA4GGV,	6,600	65	40	D	HA4GK,ops)					
K9MMS	119,799	489	81	C	DJ2LJ/R	2,052	30	19	B	DJ2LJ/R	2,052	30	19	B	HAG4GK (HA4GCF,HA4GGV,	5,270	53	26	B	HA4GK,ops)					
AA9KH	9,342	68	42	C	DJ2LJ/S	2,052	30	19	B	DJ2LJ/S	2,052	30	19	B	HAG4GK (HA4GCF,HA4GGV,	3,218	48	19	B	HA4GK,ops)					
K9AA (K9PG,K9QB,ops)	386,456	1114	103	D	DJ2LJ/T	2,052	30	19	B	DJ2LJ/T	2,052	30	19	B	HAG4GK (HA4GCF,HA4GGV,	9,161	1144	116	D	HA4GK,ops)					
N9YXA	17,650	225	34	D	DJ2LJ/U	2,052	30	19	B	DJ2LJ/U	2,052	30	19	B	HAG4GK (HA4GCF,HA4GGV,	219,509	601	117	D	HA4GK,ops)					
Indiana	49,980	267	60	A	DJ2LJ/V	16,531	99	61	A	DJ2LJ/V	16,531	230	230	176	D	HAG4GK (HA4GCF,HA4GGV,	8,080	66	40	D	HA4GK,ops)				
LA8LA	1,098	28	9	A	DJ2LJ/W	1,423,968	2273	169	B	DJ2LJ/W	16,531	230	230	176	D	HAG4GK (HA4GCF,HA4GGV,	1,203,747	1696	210	C	HA4GK,ops)				
LA5RIA	1,098	28	9	A	DJ2LJ/X	29,722	145	81	B	DJ2LJ/X	970,160	1767	181	A	HAG4GK (HA4GCF,HA4GGV,	1,203,747	1696	210	C	HA4GK,ops)					
WB8OLQ	70,818	401	66	C	DJ2LJ/Y	29,722	69	54	B	DJ2LJ/Y	970,160	413	100	A	HAG4GK (HA4GCF,HA4GGV,	1,203,747	1696	210	C	HA4GK,ops)					
Wisconsin	41,644	305	54	A	DJ2LJ/Z	1,429,914	2036	201	C	DJ2LJ/Z	376,128	708	144	B	HAG4GK (HA4GCF,HA4GGV,	1,203,747	1696	210	C	HA4GK,ops)					
XE1RGL	6,854	84	23	B	DJ2LJ/A	1,109,260	1684	185	C	DJ2LJ/A	90,906	302	109	B	HAG4GK (HA4GCF,HA4GGV,	1,203,747									

S3M3	342,216	874	126	C	Lithuania	URSBCJ	52,548	216	87	C	EAAHZH	21,723	159	39	B	JAI1K1	8,450	92	25
S5T7	280,575	621	145	C	LY2FE	78,772	357	94	A	URMO	49,470	217	85	C	JAI1MK	7,224	50	17	
S5T1W0	105,791	289	119	C	LY5A (LY3MM,op)	90,934	1667	163	B	UUSIS	20,350	123	70	C	EASDIT	18,130	97	74	
S5T7NW	105,960	337	100	C	LY3BH	1,198,208	1794	184	B	UT4XU	20,350	204	54	C	EA1AEG	16,137	137	33	
S5B6U0	53,656	266	70	C	LY2OU	568,441	1202	158	B	UT4PZ	26,413	151	61	C	EA3EVR	13,172	102	37	
S5F2PB	50,340	260	73	C	LY2PW	49,429	1083	158	B	UT2JA	25,670	120	85	C	EASCRU	4,620	58	39	
S5L0L (S53EA,S53R,S59W,S59A,Ops)	1,562,400	2023	135	D	LY3BY	87,924	288	102	B	UT8IT	20,210	126	47	C	EAA7ALN	3,620	67	29	
Poland					LY1DS	93,202	279	81	C	UR4E (UR4ES,UR5EAY,UR5ECW,	UR5EDO,UR5EDU,UR5EDX,			EASFV	452,795	1083	119		
SP4GDC	93,870	281	105	A	LY2PAQ	1,355,952	1834	212	C	UR5EFJ,UT7EZ,ops)				EAD7DPU	321,259	829	113		
SP3XKR	33,781	287	37	A	LY2KM	146,230	569	93	C	UUSU (U1U,J,U2Q,U2J,U2U,ops)	2,863,666	3617	216	D	EASFID	110,016	470	87	
SP5GKN	33,015	183	71	A	LY2DX	133,926	495	102	C	UU4JDX,UU0UX,ops)	2,189,734	2609	254	D	EASEU	65,988	434	52	
SP4AVG	26,176	171	64	A	LY3BHY,ops)	1,705,083	2699	201	D	UR4QWW (UR4QFE,UR4SQN,UR4QOQ,	397,632	706	131	D	EAF1B9	14,940	128	45	
SP1TMHV	21,168	108	72	A					USSQRW,ops)				EAC7CA	11,880	96	45			
SP5ANX	16,763	302	88	A								EASEJ	3,031	100	45				
SP5QDX	15,168	128	48	A								EAF2FR (EA5AF,EA5CPK,EA5EOP,	3,620	67	29				
SP2LAS	14,476	121	28	A								EAF5F,UT7EZ,ops)	452,795	1083	119				
SP2XT (SV2CWY,ops)												EAT7DPU	321,259	829	113				
SP2T	27,445	1030	103	B	Kaliningrad	UA2FZ	1,559,140	2404	190	B	UT7W (UR5WCUT,UT7WZ,ops)	1,120,967	1791	199	D	JAK7MK	1,644	31	12
SP6MBW	198,545	547	131	C	RA2FE	176,913	595	99	B	UU1,661	199,651	1535	187	D	JH1GZ	1,512	28	14	
SP6PMLX	80,958	282	103	C	UA3AP	50,274	270	63	B	UR4MWU (UR5MB,UR4MT,UMZ,	356,192	888	122	D	JAA1AAT	1,070	25	10	
SP6RVD	55,848	261	78	B	UA3AR	1,525,764	1877	212	A	UR5MFME,ops)	38,520	300	45	D	JH8COB	949	17	13	
SP3QBYH	33,120	193	69	B	RA3AUU	1,051,800	1503	200	A	UX3M (UR3MP,UR4MOA,UR5MAW,				JAE6DU	195	9	5		
SP7FOI	29,492	189	73	B	RV3BR	858,476	1620	157	A	UR5MTA,UR4MBM,ops)				JAA1JY	27	3	3		
SP5QAS	29,094	258	39	B	RX3APM	802,488	1502	174	A	68,250	354	78	D	JK1LUY	21	3	1		
SP2LUK	28,270	254	71	B	UA1QV	416,164	876	167	A	Latvia				JQ1VDJ1	3				
SP2AHZ	26,676	159	78	B	RW3GU	254,875	709	125	A	LY1ZF	321,570	941	135	A	JAT7Y	67,040	1264	130	
SP6IEQ	23,302	150	61	B	RA3AUM	192,204	510	114	A	LY2LTW	65,642	461	46	A	JF1X	67,040	1264	130	
SP1TEOI	20,557	146	61	B	RA3RK	147,908	116	103	A	YL2KO	23,636	170	58	A	JU1SN	139,240	498	59	
SP5PSHI	898	32	16	B	RO2A	122,257	600	100	A	YL3GE	351,004	974	122	B	DX1CW (4F3GDX,4F1BYN,4F1IF,ZE,				
SP5SHIO	1,198,635	188	179	C	RT2EM	54,698	254	78	A	YL3DW	855,135	169	155	C	4F1DM,DU1WHO,DU1NUK,				
SP2PZC	144,266	1342	182	C	RA3DXU	54,950	309	70	A	YL2UZ	200,355	644	111	C	U1PMDF,DU1NIPS,ops)				
SP2E9CH	412,308	1000	117	C	UA4Y4G	24,346	240	37	A	YL2UN	165,416	510	116	C	63,312	291	48	D	
SP2AYC	384,210	854	135	C	UA4U4L	369,357	743	159	B	YL2IU	6,574	197	19	C	DX1E (4F1EJD,DU1KOG,DU1FDD,				
SP3SLA	304,485	807	137	C	RV4LP	187,416	530	137	B					DY1RAN,DY1RSM,DY1IPs,ops)	1,521	31	13		
SP1AEN	167,400	486	124	C	UA4NC	155,232	370	144	B					JZ1KL,ops)					
SP2WDW	137,214	451	120	C	UA4SKW	144,668	430	118	B										
SP2I	65,265	242	95	C	UA3EJJ	67,860	280	85	B										
SP8BAB	44,055	301	45	C	RU3WR	63,360	285	88	B										
SP9KJU	41,720	248	70	C	UA3QOG	38,708	192	63	B										
SP9FZC	37,336	229	42	C	RV3LZ	35,571	167	71	B										
SP3GTC	27,272	140	74	C	RA3QCP/	19,092	176	43	B										
SP4EAK	25,755	188	57	C	RA3QCP/	19,092	176	43	B										
SP5CZG	25,295	188	55	C	RA3QCP/	19,092	176	43	B										
SP6CDP	24,489	188	36	C	RA3QCP/	19,092	176	43	B										
SP5SX5	15,457	169	41	C	RA3QCP/	19,092	176	43	B										
SP9AGS	6,112	113	16	C	RA3QCP/	19,092	176	43	B										
SP2I2HG	5,486	100	26	C	RA3QCP/	19,092	176	43	B										
SP6YGB	3,696	42	21	C	RA3QCP/	19,092	176	43	B										
SP9BIS	3,420	41	19	C	RA3QCP/	19,092	176	43	B										
SP2Q2DR	168	12	7	C	UA4SG	157,248	506	100	C										
3ZGD (SP2FOV,SP2JKC,Ro)	990,036	189	178	D	RA4Y6Z	152,110	513	106	C										
SP3PLD (SP3CB,SP3FAR,SP3FLR, SP3HBF,SP3BLB,ops)	427,056	945	164	D	RA3LPF	140,283	517	109	C										
SP9KRT (SP9AD,SP9-1753/ka,ops)	210,420	559	140	D	UA3AK	114,374	414	83	C										
Greece					RA3ATR	114,374	414	83	C										
SP2BBJ	4,472	108	13	C	RA3AUM	104,200	517	109	C										
SP1AEN (SV1CIB,SV1CID, SV1DPJ,ops)	138,103	521	109	D	RA3DQ	104,200	517	109	C										
Romania					RA3EAG	104,200	517	109	C										
SP9BMM	343,980	483	252	A	RA3YKQ	111,392	104	32	C										
SP9FRI	298,012	180	153	C	RA3V1	7,848	107	24	C										
SP9GEC	114,642	428	99	A	RA3WLP	6,750	250	27	C										
SP9CUU	78,956	284	85	B	RA3QK	1,955	33	12	C										
SP9BRZ	74,820	311	87	B	RA3QZ (RW3OC,RNSQD,UA3QDX, RW3ONZ,UA3QXQ,RX3QP,UA3QZ,ops)	707,755	148	77	C										
SP9AG	65,143	308	77	A	RA4AO	28,535	136	65	C										
SP9AAC	34,323	265	61	C	RA4AQ	24,084	265	64	C										
SP9RDN	27,972	262	63	C	RA4FVX	3,191,170	3782	259	D										
SP2CJX	22,444	237	52	A	RA4GWA	1,726,414	297	219	D										
SP6YCG	171,122	565	119	C	RA4HVA	1,082,079	1507	219	D										
SP6PMLX	73,870	356	89	B	RA3KAW	9,748	107	24	C										
SP62LIF	39,004	416	49	B	RA3KAW	6,750	250	27	C										
SP6BHQ	38,675	327	37	B	RA3KAW	1,955	33	12	C										
SP6YDAB	18,173	105	85	B	RA3KAW	707,755	148	77	C										
SP6YBTR	8,672	91	32	C	RA3KAW	54,320	291	217	D										
SP6YFR	166,212	451	114	C	RA3KAW	28,350	240	45	D										
Yugoslavia					RA3KAW	54,240	266	80	D										
YU1BO	107,363	431	101	A	RA3KAW	106,550	1138	175	A										
YU17CF	81,690	402	75	B	RA3KAW	542,300	1052	170	A										
YU1EA	6,912	100	18	C	RA3KAW	542,300	1052	170	A										
YU1KN	54,360	280	90	B	RA3KAW	122,094	291	133	B										
Y4T7W	30,742	266	38	C	RA3KAW	61,600	234	89	B										
Y4T1 (Y4AY,YU4WU,YZ4QOL, YZ7ED,ops)	640,134	1541	106	D	RA3KAW	56,104	296	82	A										
Zone 29					RA7IR	54,927	314	51	A										
Azerbaijan					RA7IR	35,109	181	83	A										
4K9W	16,000	95	50	C	RA7UD	2,077,000	197	217	D										
Moldova					RA7UD	2,077,000	197	217	D										
ER1OA	167,348	512	107	C	UR4EY	9,500	167	133	B										
Estonia					UR4EY	6,831	105	27	B										
ES1QD	2,241	39	27	A	UR4EY	4,644	172	27	B										
Belarus					UR4EY	1,436,784	192	222	C										
EU1DQ	275,576	671	88	A	UR5XAW	1,092,026	884	108	C										
EW6TU	261,580	237	110	B	UR5XAW	1,092,026	884	108	C										
EW1EA	147,000	502	98	A	UR5XAW	1,092,026	884	108	C										
EW4EW	55,704	285	8																