



IARU REGION I
UHF / MICROWAVE CONTEST
2003

FINAL RESULTS

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PREFACE

Dear hams, dear contestants

At the IARU R1 conference in San Marino, the Association of radio amateurs of Slovenia (ZRS) has volunteered and accepted a task to prepare the international final result for IARU R1 UHF / microwave 2003 contest.

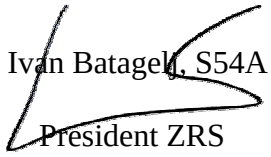
The contest took place on the 4. in 5. October 2003 and the number of participants was great on all frequency bands. The concentration of contest stations varies greatly in region I therefore some stations are better positioned to make more contacts. Looking at the results on each frequency band or at the final results we can see the that the most of the contestants are working in the Olympic spirit. With his cooperation and sent log every contestant is helping their co-contestant to a better score and the judging committee with preparing the final results especially if the log is sent in electronic format.

Because the most of the received log's were in paper form, the judging committee ZRS was worried about who will process this results and when will that happen. Because of this, there was a delay with the processing and publishing of the results for which I sincerely apologize.

It is with great pleasure that I present this document in which the official results of IARU R1 UHF / microwave contest of October 2003 are presented. I hope that you will be able to find the information you require in this document. Considering the ever rising possibilities of electronic data processing, the judging committee has appended of the results of the electronic log analysis to the final results. Perhaps this analysis will contribute to the work of future judging committees. That having been said I hope that there are not many mistakes in the spreadsheets and in the maps.

Finally I would like to thank the contestants for participation, the judging committees of IARU R1 member countries for processing logs and sending the results and the judging committee of ZRS[1] for their hard work on the basis of which this document was created.

Ljubljana, 5. September 2005



Ivan Batagelj, S54A

President ZRS

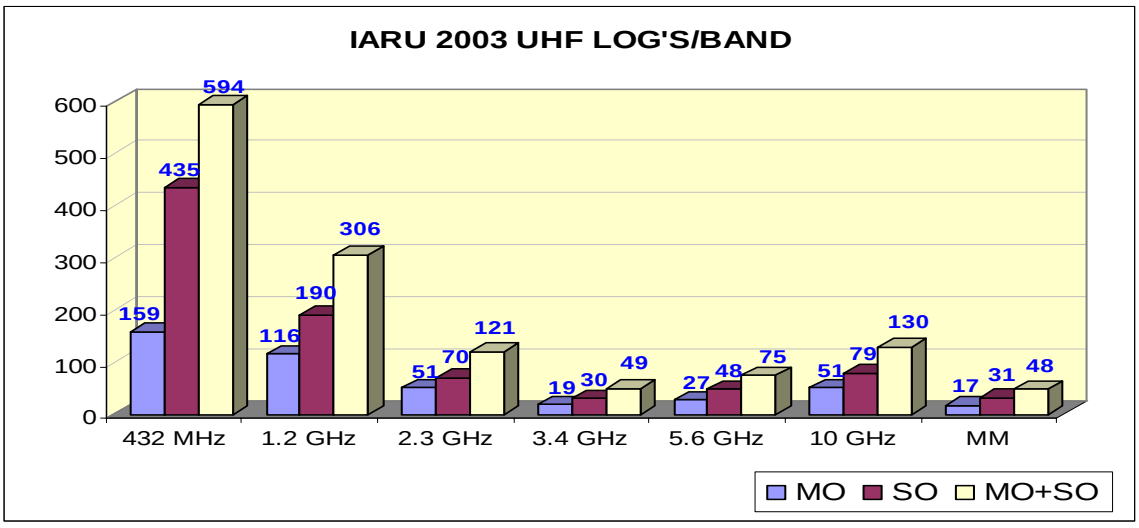
[1] S51FB, S52AA, S53WW, S55HH

THE WINNERS

	MULTI OP		SINGLE OP	
	Call	Points	Call	Points
432 MHz	DL0GTH	155374	OK1VMS	89755
1.3 GHz	PA6NL	42539	DH9NFM	24128
2.3 GHz	DF0OL	15420	G3XDY	8277
3.4 GHz	DL0GTH	4533	DL3YEE	4134
5.7 GHz	OL2R	4385	G3XDY	3240
10 GHz	G8P	8392	OK1VAM/P	8156
MM Group	OL4A	960	OK1AIY/P	1031
OVERALL	**DL0GTH**	806626	**G3XDY**	312898

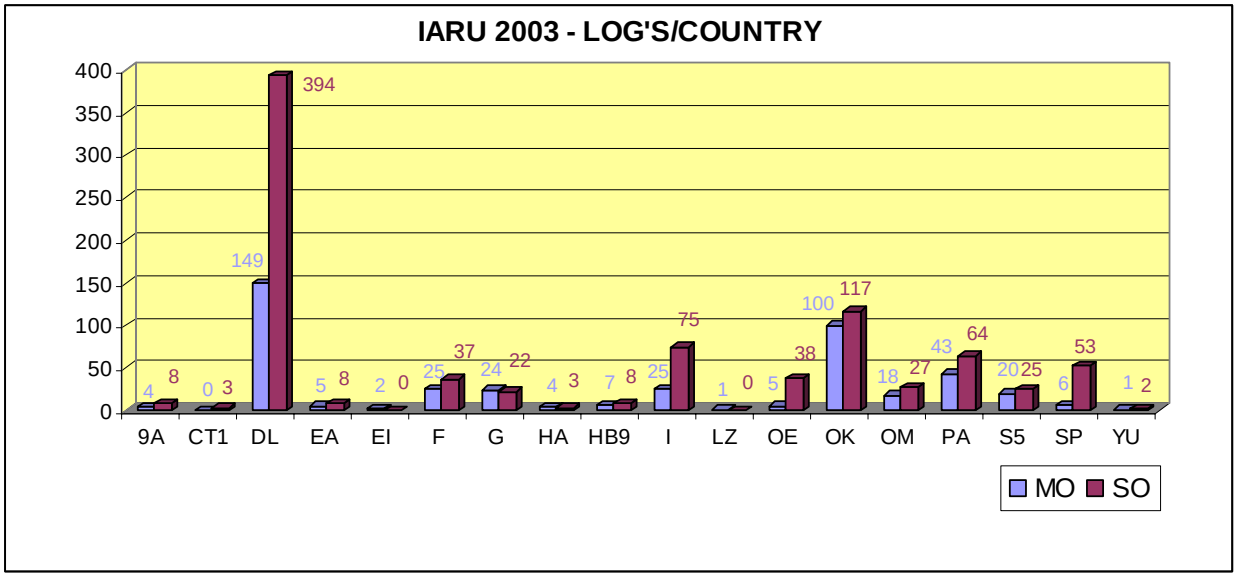
Number of received contest logs by frequency band

	432 MHz	1.2 GHz	2.3 GHz	3.4 GHz	5.6 GHz	10 GHz	MM	MO+SO
MO	159	116	51	19	27	51	17	**440**
SO	435	190	70	30	48	79	31	**883**
MO+SO	**594**	**306**	**121**	**49**	**75**	**130**	**48**	**1323**



Number of received contest logs by country

	9A	CT1	DL	EA	EI	F	G	HA	HB9	I	LZ	OE	OK	OM	PA	S5	SP	YU	Sum
MO	4	0	149	5	2	25	24	4	7	25	1	5	100	18	43	20	6	1	**439**
SO	8	3	394	8	0	37	22	3	8	75	0	38	117	27	64	25	53	2	**884**
MO+SO	**12**	**3**	**543**	**13**	**2**	**62**	**46**	**7**	**15**	**100**	**1**	**43**	**217**	**45**	**107**	**45**	**59**	**3**	**1323**



We received logs from 18 countries, some of which only upon intervention. The received logs can be described as ad-lib. Some of the IARU R1 members sent all of their logs in paper form so we couldn't use them in automatic log evaluation. At least some of them had the national results in electronic form.
Since not all of the received logs were in electronic form, we couldn't do a comparison between them or an analysis of errors in QSOs. If the contest committee made their analysis only on the basis the received EDI logs that would be unfair to them. The final ranking was therefore build on the basis of reported results or on the basis of national results. Keeping in mind to publish as many comparable results as possible about a specific station some of the data was entered by hand into specific sheets. Therefore, after amending the data (except for DL which sent just paper log, the entering of which by hand would take to long), we got 18 separate spreadsheets where the basis for final results.

OFFICIAL RESULTS BY FREQUENCY BAND[2]

432 MHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	DL0GTH	JO50JP	558	155374	278					
2.	OL4A	JO60RN	467	141946	304	G5LK/P	JO01OC	861	750	920
3.	PA6NL	JO21BX	377	138735	368	OK1KPA	JN79US	849		
4.	OK2KKW	JO60JJ	447	131147	293	YU1EV	KN04CN	854	750	1040
5.	DF0MTL	JO60LK	441	127867	290					
6.	G8P	JO01QD	320	126644	396	SK7MW		907	400	
7.	DF0YY	JO62GD	444	126086	284					
8.	PA6C	JO33FB	360	116728	324	OK5Z	JN89AK	779		
9.	DK0OG	JN68GI	314	114527	365					
10.	OL2R	JN89BO	376	113311	301	LZ9X	KN13IP	831	750	798
11.	DF0CI	JO51CH	410	110875	270					
12.	OL6R	JO70LR	366	103441	283	YU1EV	KN04CN	790	750	1012
13.	DK0NA	JO50TI	374	102145	273					
14.	OL9W	JN99FN	309	96978	314	DF1JM	JO30FQ	864	300	1323
15.	OK1KZE	JN79FX	319	90534	284	YU1EV	KN04CN	742	500	376
16.	DL0NS	JO30EM	298	84791	285					
17.	OE3XUA	JN77XX	272	84374	310			859	200	1037
18.	M1CRO/P	JO01PU	241	82034	340	OL4A		859	400	
19.	S50C	JN76JG	243	81796	337	LZ9W	KN12PP	785	500	1508
20.	DF0MMO/P	JO40AQ	344	79078	230					
21.	G5LK/P	JO01OC	217	78894	364	OL4A		861	400	
22.	PI4GN	JO33II	247	78850	319	OK5Z	JN89AK	780		
23.	DL4YAJ	JO41PU	329	74163	225					
24.	OM3W	JN99BB	242	72852	301	DL0NS	JO30EM	858	500	925
25.	DL0SE/P	JO31RF	331	72375	219					
26.	OK1KIR	JO60PM	293	71864	245	ON4BBF	JO11VD	671	500	850
27.	S57C	JN76PB	214	71114	332	YO8KRR/P	KN27OD	767		948
28.	OK5Z	JN89AK	257	71071	277	LZ9X	KN13IP	821	350	650
29.	F6KSL	JN28QJ	194	68588	354	DK3WG	JO72GI	784		
30.	DL0ON	JO50VF	248	67681	273					
31.	DA0SAX	JN48MW	229	65100	284					
32.	OE5D	JN68PC	192	63623	331			783	200	700
33.	SN6W	JO80FQ	226	61760	273	I4LCK/4		825		
34.	DF0TEC/P	JO73CF	182	60324	331					
35.	S57O	JN86DT	180	58588	325	LZ9W	KN12PP	721	500	307
36.	OM0C	JN99PG	199	58142	292	I4LCK/4	JN54PD	834	300	1396
37.	DH1NAX	JO50RK	259	57044	220					
38.	HA5KDQ	JN97LN	181	55953	309			866	300	500
39.	9A3B	JN95FQ	147	55202	376	DL0GTH	JO50JP	791	100	94
40.	S59R	JN76OM	172	54365	316	YO8KRR/P	KN27OD	763	800	1524
41.	DK0HN	JO31PP	274	53809	196					
42.	DF0WD	JO42FD	218	52886	243					
43.	OM3KII	JN88RS	200	52337	262	DL0NS	JO30EM	821	150	576
44.	OM3KEE	JN88UU	203	51351	253	DL0NS	JO30EM	835	400	970
45.	DL0PVD	JO49BO	205	50504	246					
46.	DL0GL/P	JO31KP	233	50214	216					
47.	DK0GNO	JO60QU	210	48987	233					
48.	OL1B	JO80IB	216	47532	220	DJ8EN	JO31BP	763	150	995

[2] if the information of ODX, output power and ASL is missing this station didn't supplied an electronic log

432 MHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
49.	OK1KPU	JO60VR	227	46858	206	9A3B	JN95FQ	658	50	876
50.	PE1RLF/P	JO32BF	192	46340	241	OE5D	JN68PC	686		
51.	HA6W	KN08FB	146	45853	314				50	956
52.	DL0KM	JO31BC	199	42551	214					
53.	OK1KPA	JN79US	187	41435	222	I4LCK/4	JN54PD	709	150	663
54.	DK0NO	JN59RJ	161	41068	255					
55.	OM3U	JN88LE	168	39926	238	DL0NS	JO30EM	808	30	514
56.	OK2KJT	JN99AJ	156	37861	243	DL0NS	JO30EM	843	75	700
57.	PI4FRG	JO23WE	129	37136	288	DK0OG	JN68GI	713		
58.	9A1O	JN95IT	112	36834	329	DJ5IO/P	JO50VF	711		
59.	DL0VR	JO31MI	219	35379	162					
60.	DK0PU	JO31JN	199	34797	175					
61.	OM3KHE	JN99JC	151	34362	228	I4LCK/4	JN54PD	794	100	1475
62.	DK0CWC	JO60RR	168	33451	199					
63.	DF0BG	JO30OX	192	33369	174					
64.	DF0XG	JO51KW	114	32951	289					
65.	DK0MA	JO31GG	155	32819	212					
66.	DL0EE	JN49GK	124	32686	264					
67.	OK2KRT	JN99EJ	154	31638	205	LZ9X	KN13IP	720	100	1024
68.	IW1FQD/6	JN63ET	98	31607	323	OK2KJT	JN99AJ	756	500	1480
69.	OK1KKD	JO60WD	158	30827	195	9A7D	JN95CI	623	300	518
70.	HB9BA/P	JN37SG	120	30714	256	DJ9KH/P	JO43OX	755	400	1284
71.	OK2KYC	JN99BM	150	30287	202	I4LCK/4	JN54PD	791	25	918
72.	OK1OPT	JN69NX	128	27807	217	PA6C	JO33FB	574	30	710
73.	DL0MOL	JO62WM	101	27636	274					
74.	OK1KIK	JO70TQ	150	27610	184	9A3B	JN95FQ	594	75	1220
75.	DL0FM	JN57GN	124	27596	223					
76.	DK0PX	JN48JC	130	26870	207					
77.	9A7D	JN95CI	78	26721	343	OK2KKW	JO60JJ	691	50	
78.	F1PHJ/P	JN19BC	86	26031	303	DF0YY	JO62GD	807		
79.	DF0HS/P	JO31AA	132	25309	192					
80.	OK1KNG	JN69VN	120	24787	207	YU1EV	KN04CN	738	80	827
81.	OL7C	JO60JJ	136	24176	178	SK7MW	JO65MJ	556	30	1044
82.	OK1KHQ	JO80BJ	125	23870	191	I4LCK/4	JN54PD	784	70	460
83.	DL0KK/P	JO31FM	116	23710	204					
84.	F5HGO	JN05AI	72	22700	315	ON7NH	JO21IB	722		
85.	PI4ZLD	JO11WM	83	22346	269	OL4A	JO60RN	678		
86.	OK2KJU	JN89SJ	110	21755	198	DF0MMO/P	JO40AQ	693	150	360
87.	OK1KRY	JN69SU	106	21576	204	PA6NL	JO21BX	701	80	400
88.	S51A	JN76PK	92	20693	225	SQ9W	JO90NH	515	120	1495
89.	DL0OB	JO50MA	101	20287	201					
90.	DL0SAW	JO52NU	75	20023	267					
91.	SN7L	JO91QF	70	19877	284	S57C		648		
92.	S53J	JN75EV	72	19489	271	SQ9W	JO90NH	604	100	732
93.	DL0LB	JN49QA	89	19323	217					
94.	PA6F	JO22RM	85	19248	226	OK1VMS	JN69JJ	620		
95.	DF0FM/P	JN49MP	81	19171	237					
96.	OK2KPD	JO80UB	103	18906	184	DK1KC/P	JN58QH	500	100	440
97.	DF0KO	JO30UK	99	17649	178					
98.	DL0NMB	JO51WH	93	17556	189					
99.	OK1KFH	JN69VN	95	17509	184	9A3B	JN95FQ	555	35	788
100.	DK0XB/P	JO61KB	86	14977	174					
101.	DL0RTA	JO40GD	62	14938	241					

432 MHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
102.	F6KIM	JN38BO	63	14709	233	F4DXX	IN97LH	552		
103.	4N1B	KN05CD	53	14439	272	OL2R	JN89BO	583	45	269
104.	DL6SH/P	JN49SB	57	14379	252					
105.	DK0XA	JO43WJ	76	14042	185					
106.	HB9W	JN47IK	75	13899	185	PI4GN	JO33II	674	100	660
107.	S59TTT	JN76TO	58	12952	223	DB6NI	JO50VI	504	35	597
108.	LZ9W	KN12PP	31	12621	407	OE6DRG	JN77KC	826	250	1500
109.	S59DTB	JN86AO	54	12404	230	IK4WKU/4	JN54IE	495	50	301
110.	G8OHM/P	IO82QL	59	12329	209	DL0GTH		948	350	
111.	OK2KET	JN89JM	84	11654	139	DL2HWA	JO51WE	395	10	700
112.	DL0BL	JN49HE	46	11550	251					
113.	F5KEI/P	JN13FL	53	11339	214	F6KSL	JN28QJ	591		
114.	F6HLC	JN26HS	45	11296	251	DH9NFM	JO50RF	633		
115.	EA3FTT	JN02SE	43	11273	262	CT1DHM	IN61CC	783		2300
116.	HB9CLN	JN37XA	46	10809	235	DF0YY	JO62GD	659	20	1233
117.	OK2KYZ	JN89XN	76	10632	140	DK1KC/P	JN58QH	500	25	546
118.	F8KGL/p	JN19EC	54	10566	196	DB6NI	JO50VI	690		
119.	F6KPL	IN99IO	30	10363	345	PI4FRG	JO23WE	637		
120.	DK0ZAB	JO61CU	63	10351	164					
121.	DF0OL	JO40BP	46	10312	224					
122.	DL0STO	JO71AA	58	10289	177					
123.	DC0AD/P	JO33OO	39	10216	262					
124.	DL0DLE	JO60BH	51	9621	189					
125.	PI4TUE	JO21RK	58	9192	158	DK0OG	JN68GI	612		
126.	SP9KDA/p	JO90IS	45	9185	204	DL9MCC		591		
127.	OL5GES	JN69SC	54	8632	160	9A3B	JN95FQ	530	200	1186
128.	DF0SAX	JO61VC	58	8290	143					
129.	OL7B	JN99CL	88	8272	94	DK0NA	JO50TI	481	50	1129
130.	OK1KKL	JO70PO	62	8249	133	OM0C	JN99PG	322	50	733
131.	EI9E	IO62ON	20	7823	391	PA6NL		747	400	
132.	HB9DTX/P	JN36GU	42	7105	169	DK2CKK	JO50ET	522	75	1600
133.	OM3RAL	JN98LR	50	6950	139	S50C	JN76JG	415	50	1232
134.	IW3HTU/3	JN55PS	40	6261	157	DF0MLT	JO60LK	533	3	1700
135.	DK0HG	JO61WA	60	6199	103					
136.	G3SDC/P	IO92MP	34	6036	178	DF0MMO/P		692	50	
137.	DL0BWS	JO64EB	17	5902	347					
138.	OK1KMG	JO70GG	44	5117	116	OM0C	JN99PG	359	25	200
139.	DN1CUR	JO61KB	30	5112	170					
140.	F1UCQ/P	JN12IW	24	4965	207	F6KSL/P	JN28QJ	641		
141.	F1FJU	IN95QR	20	4902	245	F6KSL	JN28QJ	543		
142.	PI4KAR	JO21OI	28	4610	165	OK2KKW	JO60JJ	543		
143.	IZ1DNC/3	JN55ST	29	4231	146	I0FHZ	JN62AP	354	10	1300
144.	DL0DX	JO31JF	36	4158	116					
145.	OK1KDO	JN69KL	38	3904	103	DF0CI	JO51CH	278	20	566
146.	HB9FX/P	JN37XG	30	3810	127	DL0GTH	JO50JP	429	25	445
147.	DK0VH	JO31HB	41	3747	91					
148.	F1CBC	JN09BO	14	3633	260	F5OAU/P	JN27UR	460		
149.	DN4BW	JO42AC	22	3543	161					
150.	SP9ZCJ/9	JO90WB	21	3019	144	OK1ES/p		305		
151.	OK2KEA	JN89EJ	21	2549	121	S51SL	JN76PL	334	50	570
152.	DB0FJG	JO40GC	26	1671	64					
153.	F5KSE/P	JN02SV	8	1496	187	F6BQX	IN96JS	482		
154.	EA6QB	JM09SB	6	1474	246	EA3FTT/P	JN02SE	346		309

432 MHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
155.	EA2AFF	IN91BM	5	1397	279	EA6QB/P	JM09SB	397	20	1200
156.	DL0HBN	JO50KM	15	1255	84					
157.	F6KNJ/P	JN38NP	14	1145	82	F6EJN/P	JN28KH	170		
158.	EA5AJJ	IM99SL	5	572	114	EA6QB/P	JM09SB	178		50
159.	I3IRV/3	JN55ST	3	331	110	IW1FQD/6	JN63ET	232	30	1300

432 MHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	OK1VMS	JN69JJ	298	89755	301	G5LK/P	JO01OC	844	500	1042
2.	PA1TK	JO22IJ	251	89042	355	F4DLS	JN15SE	807		
3.	DK2OY/P	JO40IT	298	80187	269					
4.	DF1JM	JO30FQ	303	78794	260					
5.	I4LCK/4	JN54PD	181	70887	392	OM0C	JN99PG	833	300	950
6.	DJ5IR	JN48EQ	260	69282	266					
7.	DL9MCC	JN58UA	181	61920	342					
8.	DJ9KH/P	JO42OX	199	60586	304					
9.	DK6AS	JO52JJ	219	59994	274					
10.	DJ2IE	JN48GT	196	53529	273					
11.	DL3TF	JO60RP	205	47913	234					
12.	PA3EXV	JO32KQ	183	47566	260	OL2R	JN89BO	730		
13.	OK1WB	JO80DG	209	46715	224	ON5EW/A	JO20XL	733	100	669
14.	DF8XC	JO42DC	229	45987	201					
15.	DL8UWE	JO60RP	203	45386	224					
16.	DL8UCC	JO60TS	166	43820	264					
17.	S51ZO	JN86DR	141	43653	310	DF0CI	JO51CH	675	800	317
18.	SP9JDP	JN99HW	163	43496	267	SK7MW		714		
19.	DJ3HW	JO42LH	169	42605	252					
20.	DJ2QV	JO31PF	197	41446	210					
21.	DK1KC/P	JN58QH	120	40189	335					
22.	DB6NI	JO50VI	185	38621	209					
23.	PE1GRJ	?	122	37881	311	OL6R	JO70LR	715		
24.	OK1ES/P	JO70UR	175	37756	216	PA6NL	JO21BX	815	100	1602
25.	OM3TZQ	JN98HP	169	37060	219	DL0GTH	KN13IW	606	50	1346
26.	DK5DQ	JO31PG	181	36808	203					
27.	OK1RF	JN79KM	164	36324	221	YU1EV	KN04CN	683	100	686
28.	OM1DK	JN88WK	156	35890	230	IW1FQD/6	JN63ET	666	20	180
29.	OK2TT	JO80OB	163	35657	219	YU1GT	KN04LP	665	120	1464
30.	DC6BB	JO33UK	124	35053	283					
31.	S51SL	JN76PL	123	34746	282	UT5DL/P	KN18JT	619	300	1530
32.	DJ8EN	JO31BP	143	33514	234					
33.	DJ5IO/P	JO50VF	133	32051	241					
34.	DL3WW	JO60FL	141	32031	227					
35.	DK1IP	JO53EF	116	31744	274					
36.	DH1MWO	JN58KS	103	30776	299					
37.	SP6A	JO81NG	114	30575	268	DJ5IR		688		
38.	DF9IC	JN48IW	99	29622	299					
39.	OM5LD	JN98BI	140	29421	210	I4LCK/4	JN54PD	703	20	554
40.	DK1GO	JN58KS	108	29390	272					
41.	HA8V	KN06HT	88	28546	324	DF0YY	JO62GD	831	25	85
42.	F5OAU/P	JN27UR	88	27671	314	DK3WG	JO72GI	812		
43.	DL3LAB	JO44XS	79	27287	345					
44.	DF9FD	JN49GU	90	27050	301					
45.	9A2KK	JN85OV	87	27039	311	DF0CI	JO51CH	792	50	260
46.	DL5MAE	JN58VF	56	26312	470					
47.	DL1SUN	JO53PN	85	26219	308					
48.	OK1KT	JO80CH	132	25868	196	I4LCK/4	JN54PD	779	50	650
49.	HB9WAH	JN47FD	102	25762	253	PE1GRJ	JO22MP	659	1000	443
50.	DG8RAN	JN69FU	107	25608	239					
51.	OK1FC	JN69QB	124	25389	205	YT1WV	JN94PI	691	40	1315
52.	DK3WG	JO72GI	69	25253	366					

432 MHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
53.	DO1MGN	JO50AN	134	24734	185					
54.	SQ9W	JO90NH	76	24632	324	YT1WV		662		
55.	DG6QF	JO61OA	111	24591	222					
56.	DH5HV	JO31BS	107	24173	226					
57.	DJ8UV/P	JO41IN	116	24080	208					
58.	DL3AMA	JO51ND	107	23679	221					
59.	DL8QS	JO43KH	81	23496	290					
60.	DL3TW	JO44SK	75	23252	310					
61.	OK2UDE	JN89JS	136	22799	168	YU1GT	KN05LP	554	25	585
62.	PE1EWR	JO11SL	81	22690	280	OL4A	JO60RN	701		
63.	DK5PD	JN39VV	54	22659	420					
64.	DL3YEE	JO42GE	88	22289	253					
65.	OE8FNK/2	JN67NT	79	22150	280			751	130	1280
66.	S57M	JN76PO	82	22128	270	DK3WG	JO72GI	642	25	965
67.	OE3JPC	JN87EW	73	21886	300			685	200	220
68.	OM5CM	JN98DF	102	21838	214	DJ2IE	JN48GT	721	75	230
69.	OE3GRA/6	JN77VN	106	21575	204			515	10	1780
70.	DH0GHU	JN38VN	79	21448	271					
71.	OK2BDS	JN79WF	96	21306	222	I4LCK/4	JN54PD	664	100	400
72.	DG2DAA	JO62GU	68	21285	313					
73.	DJ8MS	JO63AR	66	21033	319					
74.	DF1VW	JN39HJ	74	20852	282					
75.	OK1VEI	JN79CX	116	20429	176	YO5KUW/P	KN17TL	745	100	428
76.	DG8LAV	JO44SK	77	20263	263					
77.	YU1GT	KN04LP	52	20220	389	DF0MTL	JO60LK	880	45	200
78.	DL6UFN	JO61OA	103	20004	194					
79.	IK1PJU/1	JN44GK	79	19402	246	OL2R	JN89BO	811	70	1400
80.	OE3JTB	JN78QN	83	19197	231			609	25	650
81.	DL2ZA	JN59VL	81	19070	235					
82.	DK1CB	JO53CL	60	18858	314					
83.	DC8RA	JN39LH	64	18676	292					
84.	DG1MDQ/P	JN58NI	65	18641	287					
85.	OK1IA	JN79NU	113	18553	164	PA3EXV	JO32KQ	654	50	555
86.	DC3GR	JN49ED	72	18516	257					
87.	OK2JI	JN89MW	103	18438	179	I4LCK/4	JN54PD	777	20	520
88.	IK3TPP	JN65EP	89	18430	207	OL9W	JN99FN	630	200	5
89.	DG7SFL	JN49XF	73	18257	250					
90.	DL8UAT	JO61TL	101	18060	179					
91.	DJ3XK	JO53AN	62	17927	289					
92.	DL1EJA	JO31DQ	95	17844	188					
93.	SP6IWQ	JO80HK	89	17833	200	DF0MMO/p		607		
94.	OK1VVM	JO60WR	113	17801	158	HA5KDQ	JN97LN	510	25	800
95.	DH8IAB	JO30NO	74	17488	236					
96.	OM5MX	JN98BG	86	17372	202	IW1FQD/6	JN63ET	665	50	223
97.	DH9NFM	JO50RF	74	17338	234					
98.	G4DEZ	JO03AE	51	17127	336	DL0GTH		789	400	
99.	DL1SUZ	JO53UN	57	17060	299					
100.	DL1ARJ/P	JO60AR	93	16936	182					
101.	DL8VK	JO40BX	99	16683	169					
102.	OK2UUJ	JO80NB	107	16643	156	S50C	JN76JG	456	35	1345
103.	F6APE	IN97QI	62	16592	268	DF1JMT	JO30FQ	637		
104.	DB7HJ/P	JO53JQ	58	16475	284					
105.	OE3REC	JN88HE	75	16276	217			663	80	150

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
106.	DG1MFI	JN58HX	67	16091	240					
107.	IK4WKU/4	JN54IE	69	15491	225	HA3KZ/2	JN86RT	601	100	1900
108.	DK2MN	JO32PC	85	15414	181					
109.	DM2BPG	JO51MP	66	15385	233					
110.	DK1LRS	JO53HN	55	15348	279					
111.	DD5DX	JO61CA	83	15346	185					
112.	DM3ML	JO61VA	80	15267	191					
113.	OE1SOW	JN88FF	84	15164	181			603	200	170
114.	DK4LI	JO44WQ	44	15112	343					
115.	DK2DB	JN48FW	49	15080	308					
116.	PD4R	JO22XE	57	15028	264	DK0OG	JN68GI	633		
117.	DJ5CL	JN58VF	45	15008	334					
118.	F6EJN/P	JN28KG	50	14976	300	DF0MTL	JO60LK	632		
119.	DK6AJ	JO52GH	65	14921	230					
120.	DO2CT	JO50MO	100	14855	149					
121.	OK2PNQ	JN99EL	88	14827	168	DK2OY/P	JO40IT	704	5	1170
122.	DG4MNA/P	JN58HX	67	14782	221					
123.	DK7MP	JO31BS	61	14628	240					
124.	OE6DRG/6	JN77KC	61	14624	240			827	30	1650
125.	DJ1CW	JO42AH	64	14620	228					
126.	IZ2FOB	JN45MQ	72	14584	203	DK0NA	JO50TI	553	300	250
127.	DJ5NQ/P	JN47QT	60	14401	240					
128.	DL6NCI	JO50VI	59	14374	244					
129.	DF8XR	JO32MF	55	14369	261					
130.	I0FHZ	JN62AP	53	14217	268	IT9TVF	JM68OD	510	500	588
131.	OE3SJA	JN88GH	73	14217	195			614	70	158
132.	DL6MHW	JO52TG	53	14180	268					
133.	DG3LSM/P	JO61EG	68	13978	206					
134.	DF3RU	JN59UL	61	13967	229					
135.	DM2CKK	JO50ET	56	13793	246					
136.	OK1VBN	JN79HA	71	13722	193	YZ7A	KN04AW	532	50	500
137.	DL6UKW	JO71FQ	67	13674	204					
138.	DG6ME	JO51JU	75	13399	179					
139.	DL8UNF	JO60TS	51	13144	258					
140.	OM5AL	OM5AL	61	13099	215	DF0YY	JO62GD	615	25	118
141.	DL9LBH	JO30MP	78	13098	168					
142.	OM3CQF	JN88RT	81	13024	161	I4LCK/4	JN54PD	701	5	622
143.	DH7LF	JO54CE	48	12839	267					
144.	G3XDY	JO02OB	33	12812	388	DL0GTH		684	250	
145.	DK3IK/P	JN39JF	44	12672	288					
146.	OK2XCG	JN99JQ	82	12653	154	DF0YY	JO62GD	516	60	931
147.	IK0VWO	JN62LH	37	12578	340	I1BPU/1	JN45CS			
148.	DJ3AK	JO52GJ	59	12397	210					
149.	OK2UYZ	JN99FS	74	12390	167	DF0CI	JO51CH	607	100	260
150.	DL2EEK	JO31BS	57	12370	217					
151.	DO3JV	JO31DQ	78	12283	157					
152.	DL3HXS	JO61CU	63	12132	193					
153.	DH1MJ/P	JO31TB	83	12123	146					
154.	DL3HRT	JO61AB	55	11898	216					
155.	DL9EE	JO54DF	47	11800	251					
156.	DB4BIN/P	JO42AH	56	11522	206					
157.	OK1FHA	JO60RA	79	11486	145	PA6C	JO33FB	590	50	589
158.	S57BLJ	JN66WA	62	11459	185	SP9JDP	JN99HW	561	10	1140

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
159.	DG6NEL/P	JN59NC	47	11368	242					
160.	DO1EG	JO31BS	54	11339	210					
161.	DH7FFE	JO40FC	47	11189	238					
162.	F6GCT	JN18OU	42	11023	262	DL0GTH	JO50JP	580		
163.	DL4HG	JO53CM	47	10974	233					
164.	DK6HA/P	JO53JQ	34	10862	319					
165.	DL8BEH	JO42AH	51	10840	213					
166.	SQ6AX/6	JO70QV	59	10654	181	SK7MW		523		
167.	DO1ET	JO31DQ	71	10641	150					
168.	PA3ERT	JO21RR	53	10572	199	DK0OG	JN68GI	630		
169.	IK1PLD/I1	JN34XF	42	10440	249	OK2KKW	JO60JJ	775	25	1874
170.	F6HJO/P	JN27FJ	34	10208	300	M1CRO/P	JO01PU	545		
171.	DL6NCO	JN59MI	37	10191	275					
172.	OM3CVV	JN88ND	62	10182	164	DF0YY	JO62GD	552	20	160
173.	DJ3SN	JN48SQ	44	10109	230					
174.	HA1WD/P	JN87GF	54	10073	187	IW1FQD/6	JN63ET	500	30	260
175.	DO1FOX	JO31PU	53	10060	190					
176.	OK1MHJ	JO70UD	82	10038	122	DF0CI	JO51CH	408	20	268
177.	YU7FU	KN05DK	38	9927	261	OL9W	JN99FN	479		88
178.	DL7YS	JO62NM	35	9909	283					
179.	I2XAV/2	JN44PR	53	9897	187	DA0SAX	JN48MW	468	25	1600
180.	DL1ABA/P	JO52IJ	52	9728	187					
181.	OM7CA	JN98PP	53	9649	182	OK1VMS	JN69JJ	481	40	700
182.	S57LM	JN76HD	50	9394	188	OM0C	JN99PG	492	50	313
183.	DG5LDH	JO31CQ	60	9253	154					
184.	DC0KO	JO31TO	57	9162	161					
185.	OK1VHH	JO70CK	58	9050	156	DL0NS	JO30EM	554	50	230
186.	OK2WDC	JN89PO	65	8880	137	YZ7A	KN04AW	456	10	217
187.	PA5AO	JO31GW	39	8848	227	OE5D	JN68PC	644		
188.	DL2DR	JO31TO	56	8805	157					
189.	DL5HAU	JO53CN	42	8787	209					
190.	SP9OJQ	JN99IW	47	8542	182	YT1WV		622		
191.	PA0EZ	JO22OF	27	8462	313	DK0OG	JN68GI	676		
192.	S52CW	JN76CI	47	8437	180	DA0SAX	JN48MW	482	100	530
193.	OK2ULP	JN89JU	72	8418	117	DF0MMO	JO40AQ	628	50	595
194.	OM2RL	JN88NR	54	8208	152	DL6UFN	JO61OA	379	50	199
195.	HB9RNL	JN37SN	33	8104	246	DF0MTL	JO60LK	508	90	274
196.	DJ0UO	JO31BQ	41	8097	197					
197.	SP9EWO/9	JN99LP	48	7977	166	DK0OG		489		
198.	OK1IAP	JN79CD	43	7948	185	DF0CI	JO51CH	373	80	400
199.	DB3BW	JO42AC	42	7887	188					
200.	OK1IEI	JO70EC	67	7878	118	OM0C	JN99PG	365	20	370
201.	PE1BTL	JO21QP	38	7739	204	OL4A	JO60RN	577		
202.	DF2PN	JO30TH	34	7656	225					
203.	DL2RTJ	JO62MI	45	7573	168					
204.	DL8AAV	JO52DH	39	7534	193					
205.	OK1UDJ	JO70GG	64	7353	115	SP9JDP	JN99HW	294	25	200
206.	S58RU	JN65TM	49	7347	150	OK1KZE	JN79FX	500	25	20
207.	DJ2EO	JO31BQ	51	7271	143					
208.	PE1DOY	JO22ID	37	7196	194	OK2KKW	JO60JJ	595		
209.	OK1MCW	JO70VE	50	7149	143	YZ7A	KN04AW	665	50	212
210.	OM5UM	JN98EO	52	6965	134	DL0ON	JO50VF	509	70	200
211.	I1BPU/1	JN45CS	41	6948	169	S51SL	JN76PL			

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
212.	DO1FT/P	JO40WM	41	6855	167					
213.	9A3AQ	JN75WS	36	6837	190	IK4WKU/4	JN54IE	443	1	121
214.	SP9UOP/p	JN99LP	49	6820	139	S57C		483		
215.	SP3JMZ	JO82KJ	27	6777	251	DL0GTH		464		
216.	DJ8WK	JO40BX	53	6683	126					
217.	F1NQP	JN19HL	31	6680	215	DK0NA	JO50TI	651		
218.	DB8AH	JO31FO	40	6621	166					
219.	PD0RFU	JO32LS	34	6588	194	DK0OG	JN68GI	630		
220.	F1BJD/P	IN98WE	26	6563	252	F5KEI/P	JN13FL	561		
221.	DC5RE	JO31DQ	34	6559	193					
222.	DG3EX	JO31LG	68	6529	96					
223.	DJ6TA	JO30MS	37	6516	176					
224.	DG6YHA	JO42KH	38	6460	170					
225.	OK1EM	JO60XS	57	6445	113	HA7P	JN97KW	475	10	725
226.	SP6VGJ/3	JO81HU	27	6341	235	S51L		606		
227.	DL1UTE	JO31QH	48	6306	131					
228.	IZ4EFR/4	JN54RI	36	6287	175	S57C	JN76PB			
229.	DC1OBB	JO52IJ	36	6270	174					
230.	SP9MCY	JO90OG	38	6270	165	S51L		551		
231.	SP1MVG	JO73FJ	20	6268	313	DL0KK		606		
232.	G8HGN	JO01FO	17	6212	365	DL0PVD		585	50	
233.	DH8IAT	JN49GC	31	6206	200					
234.	IW2NOR	JN45ON	41	6203	151	S57C	JN76PB			
235.	DF1RD/P	JN69AM	41	6018	147					
236.	DL5AKF	JO50MX	42	5987	143					
237.	DJ9FG	JO52UD	35	5954	170					
238.	DG0ONW	JO50LP	41	5946	145					
239.	DF7JU	JO31CQ	40	5748	144					
240.	DD1QZ	JO31LN	43	5678	132					
241.	OK1CD	JO70GC	54	5646	105	DF0MMO	JO40AQ	465	35	295
242.	DL2LMS	JO61FG	31	5498	177					
243.	F4DXX	IN97LH	25	5494	220	F6KIM	JN38BO	552		
244.	DL3RUN	JO62NL	45	5479	122					
245.	OK2TF	JN89OW	44	5424	123	S51SL	JN76PL	410	30	780
246.	SQ9CWO	JO90FV	30	5371	179	S51ZO		490		
247.	DD1OP	JO42NG	31	5343	172					
248.	OM3WMA/P	JN88RT	41	5320	130	S50C	JN76JG	346	5	622
249.	IW3RMR	JN66PA	34	5268	155	OL9W	JN99FN			
250.	DL1ANA	JO50TW	30	5267	176					
251.	I3MMB	JN65BS	38	5267	139	IK0VWO	JN62LH			
252.	IK3MLF	JN55WJ	25	5235	209	OM3KEE	JN88UU	585	40	40
253.	DJ9CS	JO54DG	23	5232	227					
254.	DG0OXI	JO51MD	39	5227	134					
255.	F6BVA/P	JN24PE	19	5192	273	F1RJ	JN18AT	571		
256.	DG2MA	JO51VH	45	5158	115					
257.	DK2YCT	JO32RG	33	5132	156					
258.	IW3IAQ/3	JN55MQ	33	5052	153	9A6V	JN74PK	361	10	1760
259.	DL1ZC	JO52GG	41	4952	121					
260.	HB9DPY	JN37RA	26	4911	189	DF0MTL	JO60LK	554	25	590
261.	OM7CM	JN98NR	32	4880	153	YT1WV	JN94PI	487	40	400
262.	SP9MRM/6	JO81KG	30	4851	162	OE3XUA		372		
263.	S50J	JN65VO	34	4832	142	IZ2FOB	JN45MQ	369	30	150
264.	OK2VIA	JN89SN	49	4723	96	S51ZO	JN86DR	328	20	660

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
265.	DC3NI	JO50TH	34	4710	139					
266.	SP3EPX	JO83ID	18	4696	261	OM3W		465		
267.	OM7AC	JN98NN	32	4650	145	OK1VMS	JN69JJ	471	10	330
268.	IW3HXR	JN55QR	36	4564	127	I0FHZ	JN62AP	347	30	215
269.	OE3UXL	JN88DC	20	4541	227			491	40	220
270.	DK8MCT/P	JN58KI	19	4521	238					
271.	PD2EZ	?	32	4487	140	DF0YY	JO62GD	479		
272.	F1BZG	JN07VU	24	4479	187	PA1TK	JO22IJ	546		
273.	EA3BB	JN02IB	19	4472	235	CT1DHM	IN61CC	714		1680
274.	IW2NEF/2	JN45QQ	38	4436	117	S57C	JN76PB			
275.	DK8JG	JO31IJ	42	4421	105					
276.	OK1CZ	JO70MA	39	4398	113	DF0TEC/P	JO73CF	361	20	250
277.	I0JXX	JN61GV	18	4363	242	S50C	JN76JG	518	500	54
278.	9A4VM	JN85FS	22	4203	191	OL9W	JN99FN	447	10	124
279.	DL8NCG	JO50UD	27	4165	154					
280.	DL2AVK	JO50NM	35	4133	118					
281.	OK2SRO	JN89SO	46	4109	89	S51ZO	JN86DR	333	20	661
282.	PD5LO	?	24	4077	170	DF0YY	JO62GD	406		
283.	IW2DOY/4	JN44PO	27	4067	151	S50C	JN76JG	467	10	1450
284.	IW2MXY	JN45NO	29	4012	138	9A6V	JN74PK	501	10	180
285.	SP9BGS	JO90MG	34	3992	117	S51ZO		443		
286.	CT1DHM	IN61CC	10	3947	395	EA3FTT/P	JN02SE	783		1130
287.	I6CTJ	JN63SO	18	3945	219	S59R	JN76OM	349	10	89
288.	IZ6BTN/6	JN65MO	20	3908	195	S50C	JN76JG	327	45	1400
289.	OK1ZAJ	JN69JK	33	3861	117	DL0FM	JN57GN	266	3	887
290.	OK2BTS	JN79XE	27	3852	143	DK0NA	JO50TI	337	90	450
291.	DH4LH	JO54DF	19	3834	202					
292.	SP3JBI	JO91BR	19	3832	202	DF0MTL		389		
293.	OE1RGU	JN88DD	31	3806	123			358	10	280
294.	I3XKJ/3	JN55ST	24	3798	158	I0FHZ	JN62AP	354	30	1300
295.	SP3LYU	JO82KK	16	3757	235	OM3W		385		
296.	OK2PMS	JN89WW	40	3756	94	DF0MTL	JO60LK	354	10	250
297.	DL3IAS	JN49EJ	15	3645	243					
298.	I4CVC	JN54WH	14	3634	260	HA3HV/2	JN86RT	515	50	35
299.	OK1ZDA	JO60MB	30	3634	121	OK2TT	JO80OB	297	20	713
300.	IW3HYS	JN65DR	31	3571	115	IK0VWO	JN62LH			
301.	DL5ARM	JO50JI	24	3555	148					
302.	OK1VLG	JO70TK	36	3539	98	S57O	JN86DT	406	50	534
303.	OK1AFA	JO70FI	43	3537	82	OM3W	JN99BB	301	10	180
304.	IN3KLQ	JN56RG	19	3511	185	DK2GR	JN59IE	329	100	990
305.	DF7YU	JN48OG	20	3445	172					
306.	OK1DPO	JO70CH	33	3443	104	OL9W	JN99FN	315	70	10
307.	DL2RML	JO62PQ	16	3430	214					
308.	PE1MWL	JO22GH	23	3411	148	DL0GTH/P	JO50JP	471		
309.	S57WW	JN86CM	23	3347	146	DF0MTL	JO60LK	497		186
310.	OK2PHB	JN89PR	42	3336	79	S57C	JN76PB	434	20	326
311.	DL7VZF	JO61WW	19	3310	174					
312.	DJ2YE	JO31LG	33	3295	100					
313.	DO3HF/P	JN58KI	17	3263	192					
314.	DM2AJK	JO50FT	22	3186	145					
315.	DF7DJ/P	JO33PF	12	3164	264					
316.	IZ2DQD	JN45OQ	31	3119	101	IK0VWO	JN62LH	480	40	250
317.	DL8EAQ	JO31MG	31	3117	101					

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
318.	PA5WT	JO22HG	20	3036	152	DF0MMO/P	JO40AQ	295		
319.	OK1DSO	JO70DC	35	2988	85	OK2UUJ	JO80NB	202	25	400
320.	SP6LB	JO70UU	27	2974	110	OM3W		264		
321.	DO4GL/P	JO42AH	17	2967	175					
322.	F1UFX	JN19EN	13	2928	225	DL0GTH	JO50JP	612		
323.	OE1TKW	JN88DF	18	2880	160				50	200
324.	DO1BVW	JO31DQ	28	2859	102					
325.	EA5AGR	IM88WV	10	2844	284	EA3FTT/P	JN02SE	478	150	750
326.	DF2AP	JO50JX	15	2843	190					
327.	OE6WUD/3	JN88FD	26	2841	109			277	25	160
328.	OE1RVW	JN88GF	27	2814	104			252	15	160
329.	SQ5BE	KO02VA	8	2775	347	OK1ES/p		446		
330.	SQ5HD	KO02VA	8	2775	347	OK1ES/p		446		
331.	SQ9CWN/5	KO02VA	8	2775	347	OK1ES/p		446		
332.	F4DVO/P	JN18AB	15	2767	184	M1CRO/P	JO01PU	425		
333.	G4LDR	JO91EC	9	2732	304	PA6C		593	90	
334.	DL1MGR/P	JN58KI	18	2632	146					
335.	HB9ABN	JN47QK	23	2478	108	HB3YFO/P	JN36GU	224	20	740
336.	IV3MGN	JN66OD	16	2452	153	I0FHZ	JN62AP			
337.	DL1DKB	JO40BX	19	2451	129					
338.	DD1JSN	JO72GI	12	2439	203					
339.	HB9TMW	JN36GU	17	2398	141	DL5NQP/P	JN47QT	239	75	1600
340.	OM7AKA	JN98NO	22	2394	109	OE3GRA/6	JN77VN	273	60	190
341.	I4CIV	JN63FX	10	2393	239	DK2GR	JN59IE	594	100	335
342.	OK2JJA	JN89LW	29	2383	82	OE3XUA	JN77XX	230	25	315
343.	S56WRI	JN65UM	20	2357	118	IK4WKU/4	JN54IE	279	20	10
344.	OK1UEI	JO70SS	20	2297	115	OK1VBN	JN79HA	205	1	1312
345.	OK1VAV/P	JN79FW	19	2275	120	DL0NS	JO30EM	578	5	370
346.	IW0BET	JN61FS	8	2266	283	S50C	JN76JG			
347.	DJ5VW	JO31RJ	30	2252	75					
348.	DK7DV	JO31PL	26	2236	86					
349.	OK1AIG	JO70NN	23	2222	97	OM3KHE	JN99JC	309	50	230
350.	DG4DW	JO31SO	20	2214	111					
351.	DL1HWM	JO61BB	27	2182	81					
352.	IW2LC	JN45OL	24	2178	91	S50C	JN76JG	441	10	
353.	DM4NF	JO61SL	26	2119	82					
354.	OK1XPB	JO70DK	26	2103	81	OM3W	JN99BB	315	80	270
355.	OK1MG	JO70BD	20	2059	103	OL9W	JN99FN	317	100	420
356.	OK1ZHV	JO80BG	23	2026	88	OM3KHE	JN99JC	232	20	260
357.	SQ9QU	JO90KH	20	2019	101	UT5DL/p		328		
358.	DO1PKL	JO61EH	24	1931	80					
359.	F1TRE	JN37OU	8	1835	229	OK2KKW	JO60JJ	494		
360.	DG1MJS/P	JN58KI	10	1786	179					
361.	IK2XZE	JN45QU	20	1780	89	IK4WKU/4	JN54IE			
362.	F6BHI/P	JN05PG	9	1768	196	F5OAU/P	JN27UR	434		
363.	SP9MRK	JO90NH	20	1743	87	OL2R		228		
364.	DL5LST	JO61EI	18	1712	95					
365.	SP9DRP/p	JO90PO	16	1708	107	OM3HE		170		
366.	DJ6TK	JO53FG	12	1647	137					
367.	DO5HSH	JO53AN	12	1639	137					
368.	DL6UWK	JO61SK	16	1612	101					
369.	DL6UAM	JO71ES	14	1609	115					
370.	SP9MX/p	JO90PO	10	1593	159	S57C		585		

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
371.	DL1OBF	JO42MG	12	1503	125					
372.	DF6WE	JO31GO	14	1496	107					
373.	EA4LU	IM68TV	5	1488	298	EA3BB/P	JN02IB	695		212
374.	DL2DAO/P	JO31RF	4	1468	367					
375.	DL2EZ	JO31EM	18	1384	77					
376.	F1TPL	JN18ET	16	1375	86	ON4LDP	JO10UM	213		
377.	F5JJE	IN95JV	10	1359	136	F5KEI/P81	JN13FL	395		
378.	DL3AWI	JO51MF	15	1290	86					
379.	I3JUK	JN55WJ	13	1287	99	IW1FQD/6	JN63ET	180	20	25
380.	SP6CIZ	JO81LB	11	1262	115	OK1KZE		214		
381.	DF4AJ	JO42MG	16	1246	78					
382.	IK2YSJ	JN45MM	16	1218	76	I4LCK/I4	JN54PD			
383.	EB3GIG	JN02QD	9	1166	130	EA6QB	JM09SB	343		1300
384.	SP3SXX	JO82KJ	7	1160	166	SP9JDP		299		
385.	OK2BWA	JN89PR	19	1149	60	OL6R	JO70LR	200	20	326
386.	S57OGC	JN76ID	13	1125	87	I4LCK/4	JN54PD	348	20	
387.	DO7HR/P	JN58KI	9	1097	122					
388.	PA5DD	JO22IC	5	1075	215	DL3IAS	JN49EJ	397		
389.	DJ5VI	JN59UM	12	1063	89					
390.	OK1PGS	JN69RS	9	1042	116	S59R	JN76OM	384	40	400
391.	S56HCE	JN75AP	7	1011	144	I4LCK/4	JN54PD	273	25	350
392.	IW1ABM	JN34TW	11	1009	92	IW2NOR	JN45ON			
393.	OK1URO	JO70EK	15	957	64	OK1KPA	JN79US	120	1	200
394.	SP3XBO	JO81XR	5	902	180	OM3W		297		
395.	IW1FGZ	JN35UB	10	866	87	IW2NEF/2	JN45QQ	147	10	263
396.	F5MGD	JN07AW	5	859	172	G8P	JO01QD	369		
397.	DC9DD/P	JO31TP	10	835	84					
398.	OM4ADM	JN98CW	10	828	83	OE3XUA	JN77XX	197	0.2	276
399.	DL1DAW	JO31UO	15	808	54					
400.	DL2JRM/P	JO60IX	13	801	62					
401.	DH4NWG	JN59RM	10	752	75					
402.	F5NL/P	JO00SH	5	729	146	F4TTR	JN18OJ	245		
403.	F8ACF	IN87KL	5	721	144	F6APE	IN97QI	188		
404.	DO1AYJ	JO50TV	10	717	72					
405.	DD4EC	JO31DQ	11	656	60					
406.	2E1GUA	JO01FR	5	652	130	PA6NL		253	20	
407.	DB3BX	JO42AE	10	611	61					
408.	IK3ERQ	JN65BR	9	604	67	I0FHZ	JN62AP	343	15	77
409.	CT1FOP	IN60CG	4	603	151	CT2FEY/P	IN61OW	203		1250
410.	EA3GCJ	JN11EM	6	571	95	EA6QB/P	JM09SB	282	20	35
411.	DL1KAS	JO30UX	14	566	40					
412.	OM3WAN	JN99IF	10	563	56	OL2R	JN89BO	191	50	330
413.	I3NGL	JN65DR	8	548	69	S50C	JN76JG	202	50	33
414.	EB3GEK	JN01UI	4	541	135	EA4CAV/P	IN90LC	270		220
415.	HB3YFQ	JN37XI	8	539	67	HB9DTX/P	JN36GU	121	25	450
416.	G3YJR	IO93FJ	4	529	132	M1CRO/P		257	10	
417.	DG8YHB	JO31NO	10	512	51					
418.	DK1WB	JO52FG	10	506	51					
419.	DL3VNL	JO61UB	13	500	38					
420.	PA0S	JO21FW	3	493	164	PI4GN	JO33II	219		
421.	I2FUM/2	JN45RT	7	471	67	IK1PJU/1	JN44GK			
422.	SQ2EEQ	JO94JC	2	466	233	DK3WG		344		
423.	OM3WAO	KN09DD	3	382	127	UR5DDX/P	KN18JS	187	5	886

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
424.	DC7JF	JO62QL	2	334	167					
425.	F5JQO	JN18EV	4	322	81	G8P	JO01QD	260		
426.	DL2LFH/P	JO62MJ	5	302	60					
427.	IW6DCN/6	JN63TM	3	299	100	I4LCK/4	JN54PD			
428.	DL7UIO	JN48EX	6	297	50					
429.	DF7HJ/P	JO53CL	1	254	254					
430.	DG3UAS	JN49JC	5	212	42					
431.	DK2HD	JN48EX	5	196	39					
432.	DJ4HH	JO50UH	7	194	28					
433.	DJ6QS	JO31QJ	6	181	30					
434.	DL8BTE	JO62TQ	5	172	34					
435.	DL9OT	JN48EX	2	54	27					

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	PA6NL	JO21BX	142	42539	300	OL1F	JO70CG	729		
2.	DL0GTH	JO50JP	151	37923	251					
3.	DF0OL	JO40BP	161	36731	228					
4.	DF0HS/P	JO31AA	137	34003	248					
5.	DF0MTL	JO60LK	138	33588	243					
6.	G8P	JO01QD	105	33002	314	DK0NO		742	350	
7.	OL4A	JO60RN	137	31920	233	9A2SB	JN95GM	676	750	920
8.	PA6C	JO33FB	111	27412	247	OK1KZE	JN79FX	651		
9.	M1CRO/P	JO01PU	90	24482	272	DL4OL		606	200	
10.	OL2R	JN89BO	102	23443	230	LZ9X	KN13IP	831	150	798
11.	DF0TEC/P	JO73CF	62	22003	355					
12.	DK0NA	JO50TI	88	21114	240					
13.	DL0NS	JO30EM	99	20941	212					
14.	DK0OG	JN68GI	58	19844	342					
15.	DL0ON	JO50VF	72	18696	260					
16.	OK1KIR	JO60PM	101	17205	170	PO0S	JO22FW	665	150	850
17.	DF2JQ/P	JO31BC	100	16830	168					
18.	OL1F	JO70CG	84	16643	198	PA6NL	JO21BX	728	40	268
19.	OE3XUA	JN77XX	74	16198	219			633	50	1037
20.	OK5Z	JN89AK	82	15934	194	DL0NS	JO30EM	701	40	650
21.	DF0YY	JO62GD	67	15913	238					
22.	DL0VR	JO31MI	106	14631	138					
23.	OL7Q	JN99FN	80	14589	182	DL0GTH	JO50JP	560	60	1323
24.	PI4GN	JO33II	64	14479	226	F1FDB/P	JN38OS	511		
25.	OM3U	JN88LE	74	14337	194	DL0GTH	JO50JP	523	10	514
26.	S59R	JN76OM	57	14163	248	OK1ES/P	JO70UR	469	100	1524
27.	HA5KDQ	JN97LN	64	13325	208			521	10	500
28.	OK1KZE	JN79FX	69	12963	188	PA0EHG	JO22HB	725	25	376
29.	OM0C	JN99PG	63	12525	199	DF0MTL	JO60LK	472	10	1396
30.	PI4ZLD	?	54	11215	208	DH9NFM	JO50RF	551		
31.	S57C	JN76PB	49	11159	228	DF0MTL	JO60LK	516	70	948
32.	PE1RLF/P	JO32BF	62	10305	166	G0RRJ	IO91FE	541		
33.	OK1KPA	JN79US	67	10279	153	DL0GTH	JO50JP	363	40	663
34.	OL9W	JN99FN	62	9985	161	DK1KC/P	JN58QH	536	40	1323
35.	OM3W	JN99BB	50	9938	199	DK5PD	JN39VV	752	60	925
36.	G5LK/P	JO01OC	31	9301	300	F5PEJ		812	60	
37.	OK2KJT	JN99AJ	54	9259	171	S57C	JN76PB	424	15	700
38.	F5HGO	JN05AI	33	9186	278	G4ALY	IO70VR	675		
39.	HA6W	KN08FB	38	8951	236			578	10	956
40.	IW1FQD/6	JN63ET	36	8922	248	HA3GR	JN86RT	518	200	1480
41.	OM3KEE	JN88UU	61	8816	145	DK0OG	JN68GI	384	10	970
42.	G5B	JO03CE	32	8501	266	DL0GTH		778	250	
43.	DK0CWC	JO60RR	48	8401	175					
44.	G3OHM/P	IO82QL	35	8347	238	DL2DAO/P		705	150	
45.	DH1NAX	JO50RK	52	8221	158					
46.	F1PHJ/P	JN19BC	35	8182	234	PA6C	JO33FB	534		
47.	OK2KRT	JN99EJ	52	8158	157	DF0MTL	JO60LK	405	60	1024
48.	DK0HN	JO31PP	51	7543	148					
49.	OK1OFG/P	JO80KE	54	7538	140	HA7P	JN97KW	290	15	1423
50.	DK0MA	JO31GG	53	7224	136					
51.	DL6SH/P	JN49SB	39	6994	179					
52.	DK0PU	JO31JN	61	6904	113					

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
53.	OK2KYC	JN99BM	51	6655	130	DF0MTL	JO60LK	383	30	918
54.	PE1MMP	?	46	6653	145	G0RRJ	IO91FE	512		
55.	OK1KLL	JN79IW	48	6619	138	HA8V	KN06HT	558	20	500
56.	PI4FRG	JO23WE	37	6538	177	SK7MW	JO65MJ	526		
57.	OK1KHQ	JO80BJ	40	6082	152	DK5PD	JN39VV	596	10	460
58.	DF0OVH	JN48BI	41	6076	148					
59.	OM3KII	JN88RS	45	5862	130	DF0MTL	JO60LK	373	10	576
60.	OE5D	JN68PC	28	5318	190			448	8	700
61.	OK1OPT	JN69NX	36	5296	147	OL7Q	JN99FN	386	10	712
62.	DK0NO	JN59RJ	26	5078	195					
63.	F6HLC	JN26HS	24	4893	204	F5HGO	JN05AI	387		
64.	G3SDC/P	IO92MP	26	4798	185	DF0HS/P		548	55	
65.	DK0GNO	JO60QU	38	4724	124					
66.	OK1KRY	JN69SU	31	4365	141	DK5PD	JN39VV	412	40	400
67.	EI9E	IO62ON	14	4253	304	M1CRO/P		557	20	
68.	OK1KIK	JO70TQ	38	4231	111	OM3KEE	JN88UU	253	100	1220
69.	OL6R	JO70LR	36	4163	116	DL0GTH	JO50JP	294	30	1012
70.	OM3KHE	JN99JC	33	3946	120	OK1OTS		415	10	1475
71.	F6KPL	IN99IO	14	3937	281	F5HGO	JN05AI	483		
72.	OK1KKD	JO60WD	39	3668	94	DK5PD	JN39VV	435	100	518
73.	DL0EE	JN49GK	21	3544	169					
74.	DB4BW	JO42AC	22	3543	161					
75.	DK0PX	JN48JC	30	3521	117					
76.	OK1KKL	JO70PO	35	3482	99	OM3KEE	JN88UU	261	15	744
77.	OL7C	JO60JJ	29	2910	100	DJ8MS	JO63AR	374	10	1044
78.	OL7B	JN99CL	33	2888	88	OK1OTS	JO70NJ	243	1	1129
79.	DL0NMB	JO51WH	22	2869	130					
80.	F6KSL	JN28QJ	14	2858	204	DL6SH/P	JN49SB	314		
81.	IW3HTU/3	JN55PS	22	2806	128	I0UGB	JN62BO	358	1	1700
82.	F6KIM	JN38BO	10	2787	279	DK0NA	JO50TI	442		
83.	OK2KJU	JN89SJ	26	2708	104	DF0MTL	JO60LK	348	2	360
84.	IZ1DNC/3	JN55ST	16	2665	167	I0FHZ	JN62AP			
85.	I3XKJ/3	JN55ST	16	2665	167	I0FHZ	JN62AP			
86.	OK2KEA	JN89EJ	27	2564	95	OM3KHE	JN99JC	178	3	570
87.	DK0ZAB	JO61CU	17	2497	147					
88.	DL0LB	JN49QA	21	2466	117					
89.	OK2KET	JN89JM	26	2304	89	OE3XUA	JN77XX	182	10	700
90.	SN7L	JO91QF	11	2242	204	UT5DL/p		363		
91.	OK1KNG	JN69VN	20	2140	107	OK1ES/P	JO70UR	188	2	827
92.	DF0BG	JO30OX	26	2066	79					
93.	S51A	JN76PK	15	1908	127	IK4ADE	JN54OE	406	5	1495
94.	DN1BE	JO42AH	15	1890	126					
95.	S53J	JN75EV	11	1847	168	OM3U	JN88LE	321	70	732
96.	DK0XA	JO43WJ	11	1827	166					
97.	DL0PVD	JO49BO	14	1713	122					
98.	DL0MOL	JO62WM	10	1649	165					
99.	HB9CLN	JN37XA	12	1464	122	DK5PD	JN39VV	320	5	1233
100.	HB9DTX/P	JN36GU	10	1427	143	DF9PX	JN47QT	239	10	1600
101.	EA6FB	JM09SB	6	1369	228	EA3BB/P	JN02IB	340		309
102.	EA6FB	JM09SB	6	1369	228	EA3BB/P	JN02IB	340		309
103.	DL0RTA	JO40GD	14	1366	98					
104.	9A7D	JN95CI	7	1294	185	HA7P	JN97KW	292	30	
105.	DK0VH	JO31HB	13	1169	90					

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Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
106.	PI4TUE	JO21RK	10	1131	113	M1CRO/p	JO01PU	292		
107.	SP9ZCJ/9	JO90WB	9	1125	125	OK1ES/p		305		
108.	PI4KAR	JO21OI	11	1119	102	G8P	JO01QD	268		
109.	DL0OB	JO50MA	11	1053	96					
110.	S59DTB	JN86AO	7	451	64	OE3GRA/6	JN77VN	108	6	301
111.	DL0DX	JO31JF	9	382	42					
112.	DC0AD/P	JO33OO	4	307	77					
113.	I3IRV/3	JN55ST	2	307	154	I4CVC	JN54WH			
114.	F1CBC	JN09BO	2	295	148	G8P	JO01QD	193		
115.	S59TTT	JN76TO	5	266	53	OE3D	JN77VN	107	0.4	597
116.	F5KSE/P	JN02SV	1	81	81	F8CH	JN03PO	81		

1.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	DH9NFM	JO50RF	87	24128	277					
2.	DL2DAO/P	JO31RF	105	23089	220					
3.	DK5PD	JN39VV	82	21645	264					
4.	PA5DD	JO22IC	84	20879	249	OK1KZE	JN79FX	721		
5.	PA0EHG	JO22HB	76	20030	264	OK1KZE	JN79FX	726		
6.	DK9IP	JN48EQ	91	19603	215					
7.	DK8SG	JN48GT	70	17081	244					
8.	OK1ES/P	JO70UR	83	16137	194	HA8V	KN06HT	565	100	1602
9.	G3XDY	JO02OB	54	16110	298	DL0GTH		684	250	
10.	DL1SUN	JO53PN	51	15285	300					
11.	PA0EZ	JO22OF	63	14291	227	DK0OG	JN68GI	676		
12.	DL3YEE	JO42GE	62	13466	217					
13.	S51ZO	JN86DR	46	12980	282	LZ9X	KN13IP	608	100	317
14.	DK2MN	JO32PC	66	12685	192					
15.	DL3YCW/P	JO41PU	74	12474	169					
16.	DK4VW	JO40IT	52	12296	236					
17.	DL3IAS	JN49EJ	52	12235	235					
18.	DB7YAH	JO42LH	53	11859	224					
19.	OE5VRL/5	JN78DK	47	11802	251			658	90	855
20.	OK1VEC	JO60LJ	73	10916	150	PA0EHG	JO22HB	609	50	1244
21.	HA5KHC		38	10803	284	DK0OG	JN68GI	630	25	85
22.	DG1KJG	JO30NT	50	10470	209					
23.	DK4QT	JO42DC	84	10308	123					
24.	OE3JPC	JN87EW	40	9021	226			685	150	220
25.	OK2JI	JN89MW	57	8942	157	DL0GTH	JO50JP	451	35	520
26.	OK2TT	JO80OB	53	8267	156	S59R	JN76OM	421	10	1464
27.	PA3AWJ	?	38	8087	213	DK0OG	JN68GI	695		
28.	OM5CM	JN98DF	49	7923	162	DF0MTL	JO60LK	458	10	230
29.	S53FO	JN76PL	39	7898	203	YU1EV	KN04CN	438	50	
30.	G0RRJ	IO91FE	29	7591	262	DK2MN		617	100	
31.	IK4ADE	JN54OE	24	7324	305	DH9NFM	JO50RF	671	90	700
32.	DG5FEB/P	JO40PL	40	7196	180					
33.	DL1SUZ	JO53UN	27	7171	266					
34.	PA0VVH	JO21WS	50	6989	140	G3MEH	IO91QS	448		
35.	PA0WWM	JO22FE	39	6901	177	G0RRJ	IO91FE	429		
36.	PE1GRJ	?	39	6791	174	DK9IP	JN48EQ	498		
37.	SP9JDP	JN99HW	39	6791	174	YU1EV		610		
38.	DK1CB	JO53CL	24	6542	273					
39.	DH8IAB	JO30NO	41	6505	159					
40.	OE3JTB	JN78QN	32	6392	200			438	10	650
41.	OE3GRA/6	JN77VN	40	6341	159			296	3	1780
42.	9A2KK	JN85OV	28	6213	222	IW1FQD/6	JN63ET	446	10	260
43.	IK3COJ	JN65BN	33	6159	187	OL2R	JN89BO	540	200	20
44.	OK1VEI	JN79CX	48	6157	128	OL7Q	JN99FN	309	10	428
45.	OK2BFF	JO80HB	49	6129	125	DL0GTH	JO50JP	419	10	983
46.	OE8FNK/2	JN67NT	26	6024	232			559	80	1280
47.	DJ8MS	JO63AR	22	5779	263					
48.	PA0S	JO21FW	33	5705	173	DH9NFM	JO50RF	525		
49.	PA3EXV	JO32KQ	30	5692	190	OL4A	JO60RN	512		
50.	PA5AO	JO31GW	36	5668	157	DF0TEC/P	JO73CF	538		
51.	I0FHZ	JN62AP	20	5664	283	DK2GR	JN59IE	734	250	588
52.	F6APE	IN97QI	25	5498	220	F1VBW	JN03WL	474		

1.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
53.	DF1EQ	JO31NC	37	5443	147					
54.	DK1KC/P	JN58QH	26	5407	208					
55.	I4CVC	JN54WH	22	5231	238	DH9NFM	JO50RF	658	150	35
56.	PF2D	JO21WX	42	5197	124	DH9NFM	JO50RF	436		
57.	OK1IA	JN79NU	43	5191	121	HA7P	JN97KW	347	1	555
58.	OK2UUJ	JO80NB	37	5173	140	DF0MTL	JO60LK	299	10	1345
59.	IW3RMR	JN66PA	27	5082	188	DH9NFM	JO50RF			
60.	I4LCK/4	JN54PD	17	4916	289	DH9NFM	JO50RF	676	40	950
61.	OK1VVM	JO60WR	38	4745	125	OM3W	JN99BB	356	10	800
62.	DB7HJ/P	JO53JQ	15	4595	306					
63.	OK1UEI	JO70SS	39	4526	116	OK2KJU	JN89SJ	209	1	1312
64.	DK2DB	JN48FW	23	4343	189					
65.	DL6NCI	JO50VI	24	4271	178					
66.	DL6NCO	JN59MI	22	4237	193					
67.	DH7FFE	JO40FC	26	4193	161					
68.	DJ6TA	JO30MS	33	4144	126					
69.	DF4IAO	JN49HC	29	4032	139					
70.	F1BZG	JN07VU	17	3964	233	PA6NL	JO21BX	488		
71.	OK2BDS	JN79WF	28	3715	133	HA7P	JN97KW	263	15	400
72.	DG1MDQ/P	JN58NI	20	3714	186					
73.	DD5DX	JO61CA	31	3590	116					
74.	OM3CQF	JN88RT	30	3555	119	S59R	JN76OM	305	1	622
75.	OE1SOW	JN88FF	27	3524	131			350	40	170
76.	DC0KO	JO31TO	25	3518	141					
77.	DJ2EO	JO31BQ	32	3510	110					
78.	PE1EWR	JO11SL	17	3454	203	G3LTF	IO91GG	348		
79.	IW6ATU/6	JN63QM	15	3366	224	S59R	JN76OM	363	10	250
80.	DF8XR	JO32MF	21	3347	159					
81.	F1BJD/P	IN98WE	15	3198	213	F6FHP	IN94TR	385		
82.	DL3WW	JO60FL	18	3180	177					
83.	DC9FD/P	JO40PL	20	3172	159					
84.	OE3REC	JN88HE	26	3141	121			350	10	150
85.	DJ2QV	JO31PF	14	3085	220					
86.	OK2TF	JN89OW	28	3079	110	OK1KIR	JO60PM	287	10	780
87.	DG2DAA	JO62GU	14	3076	220					
88.	OK1EM	JO60XS	28	2965	106	DL0GTH	JO50JP	223	2	725
89.	DF2IAX	JN49HC	23	2894	126					
90.	DJ0UO	JO31BQ	26	2778	107					
91.	S53VV	JN65VL	18	2737	152	IK4ADE	JN54OE	249	10	458
92.	9A3AQ	JN75WS	15	2713	181	I4LCK/4	JN54PD	403	10	121
93.	DG6QF	JO61OA	21	2681	128					
94.	F1NQP	JN19HL	14	2553	182	F5HGO	JN05AI	498		
95.	I6CTJ	JN63SO	12	2532	211	IK3TCH/3	JN55MQ	304	2	89
96.	DL3HXS	JO61CU	17	2501	147					
97.	OE6KDG/6	JN77EB	14	2429	174			410	2	1500
98.	S58RU	JN65TM	19	2360	124	IK4ADE	JN54OE	241	10	20
99.	S59AW	JN65WX	17	2357	139	IK4ADE	JN54OE	289		1495
100.	DL7YS	JO62NM	11	2341	213					
101.	OK1IEI	JO70EC	26	2254	87	DL0GTH	JO50JP	261	1	370
102.	DM3ML	JO61VA	18	2222	123					
103.	DG6NEL/P	JN59NC	15	2199	147					
104.	DM2AFN	JO61WB	15	2150	143					
105.	IK3TCH/3	JN55MQ	11	2142	195	I0UGB	JN62BO	353	10	1766

1.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
106.	DL1ARJ/P	JO60AR	21	2123	101					
107.	OE3SJA	JN88GH	20	2114	106			223	10	158
108.	OK2ULP	JN89JU	22	2078	94	OM0C	JN99PG	192	10	595
109.	F6GCT	JN18OU	11	2037	185	F5HGO	JN05AI	457		
110.	DL2DR	JO31TO	23	2028	88					
111.	F6BVA/P	JN24PE	7	2016	288	F6DKW	JN18CS	561		
112.	DK6HA/P	JO53JQ	5	1998	400					
113.	OK1VHH	JO70CK	23	1982	86	DL0GTH	JO50JP	243	5	230
114.	I3MMB	JN65BS	15	1962	131	I0FHZ	JN62AP			
115.	PE1BTL	JO21QP	16	1912	120	G8P	JO01QD	284		
116.	DG3LSM/P	JO61EG	18	1835	102					
117.	OK1DSO	JO70DC	25	1825	73	OK1OFG/P	JO80KE	184	10	400
118.	OK1AWJ	JO70EC	25	1789	72	OK1OFG/P	JO80KE	179	10	350
119.	F6EJN/P	JN28KG	8	1672	209	F6KPL	IN99IO	474		
120.	OM5AL	JN97CX	14	1616	115	OK2JI	JN89MW	234	3	118
121.	DL6UFN	JO61OA	15	1573	105					
122.	IV3MGN	JN66OD	11	1515	138	I0FHZ	JN62AP			
123.	DF6WE	JO31GO	18	1503	84					
124.	DJ5VW	JO31RJ	19	1457	77					
125.	DG8RAN	JN69FU	11	1455	132					
126.	DL1ZC	JO52GG	15	1438	96					
127.	EA3BB	JN02IB	7	1426	204	EA6FB/P	JM09SB	340		1680
128.	G4LDR	IO91EC	7	1414	202	EI9E/P		390	8	
129.	OK2SIA	JN99DP	20	1394	70	OK1ES/P	JO70UR	220	10	660
130.	G4SJH	IO91PI	11	1366	124	PA6NL		340	15	
131.	DG0EK	JO60LT	21	1343	64					
132.	DC1OBB	JO52IJ	7	1335	191					
133.	OE3UXL	JN88DC	8	1328	166			227	10	220
134.	SP1MVG	JO73FJ	7	1297	185	OZ0XX		249		
135.	DJ3AK	JO52GJ	11	1287	117					
136.	DJ1CW	JO42AH	10	1248	125					
137.	DJ5NQ/P	JN47QT	8	1242	155					
138.	DG2MA	JO51VH	17	1208	71					
139.	DL5MEL	JN58IS	6	1195	199					
140.	DB3BX	JO42AH	10	1167	117					
141.	OM3WMA/P	JN88RT	11	1143	104	OK1OFG/P	JO80KE	159	1	622
142.	OM7CA	JN98PP	11	1143	104	HA5KDQ	JN97LN	123	20	700
143.	S57WW	JN86CM	10	1111	111	HG8V	KN06HT	339		186
144.	PE1MWL	JO22GH	11	1100	100	M1CRO/P	JO01PU	228		
145.	F6HJO/P	JN27FJ	7	1092	156	F6CBH	JN19BH	274		
146.	IZ4BEH/4	JN54TF	8	1039	130	IW3RMR	JN66PA			
147.	OM5UM	JN98EO	13	1038	80	OM3U	JN88LE	114	10	200
148.	SP9OJQ	JN99IW	12	1026	86	OE3JTB		286		
149.	DG0ONW	JO50LP	7	982	140					
150.	EB5AYG	IM99TN	6	978	163	EA3BB/P	JN02IB	293	7	25
151.	OE1RVW	JN88GF	15	936	62			212	8	160
152.	DL3AMA	JO51ND	10	913	91					
153.	DF7JU	JO31CQ	12	866	72					
154.	SP9BGS	JO90MG	10	858	86	OK2UDE		170		
155.	OM7CM	JN98NR	8	855	107	OM3U	JN88LE	171	20	400
156.	OE6DRG/6	JN77KC	8	850	106			223	8	1650
157.	DB4BIN/P	JO42AH	8	832	104					
158.	IK3ERQ	JN65BR	9	778	86	IW6ATU/6	JN63QM	264	15	77

1.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
159.	HB9TMW	JN36GU	5	775	155	DL5NQP/P	JN47QT	239	10	1600
160.	SP9SOO/p	JN99OW	11	773	70	OK2TT		144		
161.	F5JJE	IN95JV	7	758	108	F6APE/49	IN97QI	168		
162.	G4DEZ	JO03AE	4	724	181	DF0HS/P		475	100	
163.	DG5YHA	JO42KH	7	699	100					
164.	SP9DRP/p	JO90PO	6	665	111	OK2KRT		149		
165.	SP9MX/p	JO90PO	6	665	111	OK2KRT		149		
166.	DG7SFL	JN49XF	5	662	132					
167.	OK1AIG	JO70NN	13	630	48	OK1KKD	JO60WD	100	20	230
168.	OK2PNQ	JN99EL	11	622	57	OK1KPA	JN79US	195	1	1170
169.	SP3JMZ	JO82KJ	2	597	299	OL9W		394		
170.	DM2EUN	JO60JU	8	572	72					
171.	F6BHI/P	JN05PG	5	554	111	F1MOZ	IN93RS	221		
172.	S51SL	JN76PL	5	387	77	OE3XUA	JN77XX	174	10	1530
173.	IK3MLF	JN55WJ	5	348	70	IW1FQD/6	JN63ET	180	10	40
174.	DL1MGR/P	JN58KI	3	307	102					
175.	DL3HRT	JO61AB	5	286	57					
176.	DC9DD/P	JO31TP	6	265	44					
177.	DL1ABA/P	JO52IJ	2	264	132					
178.	DC3GR	JN49ED	4	243	61					
179.	DG4DW	JO31SO	7	233	33					
180.	OK1UOW	JO80CA	3	229	76	OK1UEI	JO70SS	96	10	300
181.	G3YJR	IO93FJ	2	227	114	G5B		119	6	
182.	CT1DHM	IN61CC	2	212	106	CT2FEY/P	IN61OW	124		1130
183.	OM3WAN	JN99IF	4	140	35	OM0C	JN99PG	43	10	330
184.	SQ2EEQ	JO94JC	1	122	122	SP2DDX		122		
185.	HB9RNL	JN37SN	2	89	45	HB9CLN	JN37XA	68	40	274
186.	DK2HD	JN48EX	3	77	26					
187.	DL9OT	JN48EX	1	32	32					
188.	DG2YIR	JO42KF	2	20	10					
189.	SP3TL	JO72QP	1	7	7	SP3WVG		7		
190.	SP3WVG	JO72OR	1	7	7	SP3TL		7		

2.3 GHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	DF0OL	JO40BP	62	15420	249					
2.	DL0GTH	JO50JP	52	12743	245					
3.	PA6NL	JO21BX	48	12149	253	SK7MW	JO65MJ	699		
4.	PA6C	JO33FB	46	10510	228	G3LTF	IO91GG	576		
5.	DL0ON	JO50VF	41	10111	247					
6.	DL0NS	JO30EM	42	8592	205					
7.	DK0NA	JO50TI	39	8091	207					
8.	DF0MTL	JO60LK	41	7894	193					
9.	OL2R	JN89BO	32	7802	244	DG1KJG	JO30NT	654	40	798
10.	G8P	JO01QD	31	7583	245	DL3YEE		507	40	
11.	M1CRO/P	JO01PU	31	6450	208	DF9QX		503	40	
12.	OK1KIR	JO60PM	36	6037	168	HA7P	JN97KM	527	30	850
13.	PI4ZLD	JO11WM	32	5785	181	DG5FEB/P	JO40PL	397		
14.	DF0YY	JO62GD	22	4586	208					
15.	DF0TEC/P	JO73CF	15	4333	289					
16.	OL6R	JO70LR	24	4282	178	DG1KJG	JO30NT	551	5	1012
17.	PE1RLF/P	JO32BF	29	3921	135	G3XDY	JO02OB	336		
18.	DK0OG	JN68GI	18	3919	218					
19.	OK5Z	JN89AK	20	3839	192	DF0OL	JO40BP	581	7	650
20.	OE3XUA	JN77XX	17	3830	225			563	50	1037
21.	OK1KPA	JN79US	21	3664	174	DL0GTH	JO50JP	363	10	663
22.	DK0MA	JO31GG	27	3637	135					
23.	DK0CWC	JO60RR	18	3370	187					
24.	OL9W	JN99FN	17	3064	180	DL0GTH	JO50JP	560	10	1323
25.	G3OHM/P	IO82QL	13	2494	192	PA6NL		463	70	
26.	PI4TUE	JO21RK	15	2404	160	G3XDY	JO02OB	301		
27.	IW1FQD/6	JN63ET	11	2354	214	IW2HKW	JN45KL	333	20	1480
28.	DK0GNO	JO60QU	18	2352	131					
29.	OM3KEE	JN88UU	16	2208	138	OK1AXH	JN79CX	282	0.2	970
30.	F1PHJ/P	JN19BC	10	2109	211	PA6C	JO33FB	534		
31.	G5B	JO03CE	8	2065	258	PA0WMX		441	50	
32.	DF2JQ/P	JO31BC	23	2047	89					
33.	OK1KLL	JN79IW	18	1987	110	DL0GTH	JO50JP	289	20	500
34.	PI4GN	JO33II	10	1924	192	DL0GTH/P	JO50JP	411		
35.	OK2KRT	JN99EJ	12	1853	154	DF0MTL	JO60LK	405	75	1024
36.	DL6SH/P	JN49SB	13	1724	133					
37.	IW3HTU/3	JN55PS	12	1621	135	I0FHZ	JN62AP	352	3	1700
38.	OK2KYC	JN99BM	15	1559	104	OE3GRA/6	JN77VN	277	1	918
39.	DK0PX	JN48JC	11	1467	133					
40.	DH1NAX	JO50RK	11	1265	115					
41.	OM0C	JN99PG	9	976	108	OL2R	JN89BO	232	1	1396
42.	DF0OVH	JN48BI	6	924	154					
43.	OK1KKD	JO60WD	10	853	85	OK2BFF	JO80HB	196	4	518
44.	S57C	JN76PB	6	791	132	9A2SB	JN95GM	259	10	948
45.	DL0NMB	JO51WH	7	733	105					
46.	OK1KKL	JO70PO	7	621	89	OK1KIR	JO60PM	141	1	744
47.	F6HLC	JN26HS	2	564	282	F6BVA/P	JN24PE	292		
48.	DL0LB	JN49QA	3	297	99					
49.	DK0VH	JO31HB	4	270	68					
50.	OK1KRY	JN69SU	5	191	38	OK1KLL	JN79IW	84	0	400
51.	S59R	JN76OM	2	149	75	9A3AQ	JN75WS	98	0	1524

2.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	G3XDY	JO02OB	30	8277	276	DF0OL		506	120	
2.	DL1SUN	JO53PN	27	7785	288					
3.	DL3YEE	JO42GE	36	7607	211					
4.	PA5DD	JO22IC	38	7236	190	SK7MW	JO65MJ	659		
5.	DK2MN	JO32PC	38	6462	170					
6.	DG1KJG	JO30NT	28	5979	214					
7.	PA0EZ	JO22OF	33	5844	177	DK2GR	JN59IE	514		
8.	PA0WWM	JO22FE	26	4599	177	G0RRJ	IO91FE	429		
9.	OE5VRL/5	JN78DK	17	4018	236			508	40	855
10.	PA0WMX	?	23	3850	167	G5B	JO03	441		
11.	DL3YCW/P	JO41PU	20	3565	178					
12.	OK1AXH	JN79CX	24	3509	146	HA7P	JN97KW	410	80	428
13.	DG5FEB/P	JO40PL	18	3489	194					
14.	OK2BFF	JO80HB	20	3384	169	DL0GTH	JO50JP	419	10	983
15.	DL1SUZ	JO53UN	14	3276	234					
16.	DK1CB	JO53CL	12	3225	269					
17.	G0RRJ	IO91FE	13	3142	242	PA0EZ		479	20	
18.	PA5AO	JO31GW	21	3116	148	DL1SUN	JO53PN	368		
19.	PA0S	JO21FW	18	2966	165	DL0GTH/P	JO50JP	464		
20.	PA0VVH	JO21WS	22	2960	135	G3MEH	IO91QS	448		
21.	DL6NCI	JO50VI	14	2447	175					
22.	DL3IAS	JN49EJ	12	2299	192					
23.	DK2DB	JN48FW	11	2192	199					
24.	PF2D	JO21WX	18	1846	103	G3XDY	JO02OB	320		
25.	OK1VEC	JO60LJ	16	1845	115	OK2BFF	JO80HB	263	20	1244
26.	OK1UEI	JO70SS	14	1782	127	OK1VEC	JO60LJ	187	1	1312
27.	IW3RMR	JN66PA	9	1707	190	I0FHZ	JN62AP			
28.	DL6NCO	JN59MI	10	1673	167					
29.	PA3EXV	JO32KQ	12	1652	138	DL0NS	JO30EM	244		
30.	I0FHZ	JN62AP	6	1584	264	IW3RMR	JN66PA	388	10	588
31.	IW6ATU/6	JN63QM	6	1521	254	IK3TCH/3	JN55MQ	303	3	250
32.	OE8FNK/2	JN67NT	6	1453	242			481	20	1280
33.	DJ6TA	JO30MS	13	1311	101					
34.	DL3WW	JO60FL	8	1147	143					
35.	IK3TCH/3	JN55MQ	5	1122	224	I0FHZ	JN62AP	347	5	1766
36.	G4LDR	IO91EC	6	1032	172	G3XDY		223	35	
37.	S53VV	JN65VL	6	987	165	IW1FQD/6	JN63ET	217	3	458
38.	I4CVC	JN54WH	5	975	195	I1TEX	JN34SA	347	35	35
39.	DM2AFN	JO61WB	7	951	136					
40.	SP9JDP	JN99HW	7	921	132	OE5VRL/5		356		
41.	DD5DX	JO61CA	8	866	108					
42.	OK2UPG	JN99FN	8	864	108	OE3XUA	JN77XX	254	6	1323
43.	DG2DAA	JO62GU	5	861	172					
44.	OE3GRA/6	JN77VN	5	851	170			277	1	1780
45.	PE1EWR	JO11SL	6	850	142	PA6C	JO33FB	266		
46.	OK1DSO	JO70DC	9	810	90	OK2BFF	JO80HB	167	3	400
47.	DG8RAN	JN69FU	6	782	130					
48.	S51WI	JN75DS	5	782	156	IW6ATU/6	JN63QM	260	4.5	1268
49.	DF1EQ	JO31NC	7	752	107					
50.	IV3MGN	JN66OD	4	661	165	IW6ATU/6	JN63QM			
51.	OE3UXL	JN88DC	4	565	141			227	10	220
52.	IZ4BEH/4	JN54TF	4	515	129	IW3RMR	JN66PA			

2.3 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
53.	DJ5VW	JO31RJ	9	493	55					
54.	OK1VVM	JO60WR	5	484	97	OK1KPA	JN79US	168	1	800
55.	DL2DR	JO31TO	10	434	43					
56.	9A3AQ	JN75WS	4	345	86	S51WI	JN75DS	123	2	121
57.	F6APE	IN97QI	1	282	282	F1PHJ/P	JN19BC	282		
58.	IK3ERQ	JN65BR	2	279	140	IW1FQD/6	JN63ET	214	1	77
59.	SP9SOO/p	JN99OW	4	269	67	OK2KYC		91		
60.	DM2EUN	JO60JU	3	264	88					
61.	DF6WE	JO31GO	3	248	83					
62.	DG4DW	JO31SO	6	239	40					
63.	DL1DAW/P	JO31UO	6	227	38					
64.	DC0KO/P	JO31TP	6	224	37					
65.	OE1RVW	JN88GF	3	156	52			92	1	160
66.	PE1MWL	JO22GH	4	128	32	PA6NL	JO21BX	47		
67.	DF8XR	JO32MF	2	123	62					
68.	DG0ONW	JO50LP	2	110	55					
69.	DC9DD/P	JO31TP	2	35	18					
70.	IW6DCN/6	JN63TM	2	31	16	IW6ATU/6	JN63QM			

3.4 GHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	DL0GTH	JO50JP	21	4533	216					
2.	PA6NL	JO21BX	18	4199	233	DK0NA	JO50TI	553		
3.	DK0NA	JO50TI	16	3842	240					
4.	DF0MTL	JO60LK	18	3323	185					
5.	OL2R	JN89BO	13	2809	216	DL0GTH	JO50JP	397	1	798
6.	PA6C	JO33FB	16	2801	175	G3XDY	JO02OB	372		
7.	DK0OG	JN68GI	11	2393	218					
8.	PI4ZLD	JO11WM	13	2315	178	DL3YEE	JO42GE	329		
9.	G8P	JO01QD	10	2272	227	DK2MN		422	7	
10.	PI4GN	JO33II	10	2055	206	DL0GTH/P	JO50JP	411		
11.	OK1KIR	JO60PM	15	1988	133	DL1SUN	JO53PN	365	6	850
12.	OK5Z	JN89AK	10	1862	186	DK0NA	JO50TI	332	7	650
13.	DF0YY	JO62GD	8	1655	207					
14.	G8IFT/P	IO82QL	7	1442	206	PA6NL		463	35	
15.	OK1KLL	JN79IW	11	1239	113	DL0GTH	JO50JP	289	8	500
16.	OK2KRT	JN99EJ	3	639	213	OK1AXH	JN79CX	307	0	1024
17.	DK0PX	JN48JC	3	446	149					
18.	OK1KKD	JO60WD	7	401	57	OK1ES/P	JO70UR	145	4	518
19.	S57C	JN76PB	1	107	107	S51ZO	JN86DR	107	0.1	948

3.4 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	DL3YEE	JO42GE	22	4134	188					
2.	DK2MN	JO32PC	21	3639	173					
3.	G3XDY	JO02OB	13	3407	262	DL3YEE		501	15	
4.	DG1KJG	JO30NT	14	2849	204					
5.	PA0EZ	JO22OF	16	2480	155	G8P	JO01QD	291		
6.	PA0WWM	JO22FE	14	2177	156	DL3YEE	JO42GE	279		
7.	PA5DD	JO22IC	14	2143	153	DF9QX	JO42HD	268		
8.	PA3AWJ	?	10	1743	174	DL0GTH/P	JO50JP	458		
9.	OK1AIY/P	JO70SQ	11	1711	156	DK0OG	JN68GI	338	4	950
10.	DG5FEB/P	JO40PL	9	1548	172					
11.	DL1SUN	JO53PN	5	1475	295					
12.	OK1AXH	JN79CX	11	1342	122	OK2KRT	JN99EJ	307	10	428
13.	DL3YCW/P	JO41PU	8	1340	168					
14.	DK1CB	JO53CL	5	1326	265					
15.	DL6NCI	JO50VI	7	1240	177					
16.	OK1ES/P	JO70UR	8	1048	131	DF0MTL	JO60LK	197	3	1602
17.	DK2DB	JN48FW	5	744	149					
18.	DL3IAS	JN49EJ	6	677	113					
19.	DF1EQ	JO31NC	3	299	100					
20.	DM2AFN	JO61WB	4	295	74					
21.	DL2DR	JO31TO	8	289	36					
22.	OK1DSO	JO70DC	5	275	55	OK1AIY/P	JO70SQ	110	1	400
23.	DG4DW	JO31SO	6	239	40					
24.	DL1DAW/P	JO31UO	6	227	38					
25.	DC0KO/P	JO31TP	6	224	37					
26.	DJ5VW	JO31RJ	6	219	37					
27.	G4LDR	IO91EC	2	108	54	G8ACE		24	0	
28.	S51ZO	JN86DR	1	107	107	S57C	JN76PB	107	0.3	317
29.	DJ6TA	JO30MS	2	62	31					
30.	DC9DD/P	JO31TP	2	35	18					

5.7 GHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	OL2R	JN89BO	20	4385	219	DL0GTH	JO50JP	397	10	798
2.	DK0NA	JO50TI	17	3454	203					
3.	PA6NL	JO21BX	16	2896	181	DG5FEB/P	JO40PL	397		
4.	DL0GTH	JO50JP	15	2889	193					
5.	G8P	JO01QD	11	2499	227	G8IFT/P		312	4	
6.	PI4ZLD	JO11WM	14	2483	177	DL3YEE	JO42GE	329		
7.	OK1KIR	JO60PM	15	2451	163	OL9W	JN99FN	385	5	850
8.	PI4TUE	JO21RK	12	2054	171	G3XDY	JO02OB	301		
9.	IW3HTU/3	JN55PS	14	1935	138	I0FHZ	JN62AP	352	1	1700
10.	PI4GN	JO33II	10	1874	187	PI4ZLD	JO11WM	281		
11.	S57C	JN76PB	9	1805	201	IW1FQD/6	JN63ET	340	3.0	948
12.	PA6C	JO33FB	9	1611	179	G3XDY	JO02OB	372		
13.	DF0MTL	JO60LK	12	1553	129					
14.	F1PHJ/P	JN19BC	8	1489	186	PA6NL	JO21BX	349		
15.	OL9W	JN99FN	9	1482	165	OK1KIR	JO60PM	384	2	1323
16.	OK2KRT	JN99EJ	8	1466	183	OK1KIR	JO60PM	384	5	1024
17.	IW1FQD/6	JN63ET	6	1342	224	S57C	JN76PB	339	5	1600
18.	G8IFT/P	IO82QL	9	1331	148	G8P		312	15	
19.	DK0OG	JN68GI	8	1243	155					
20.	I3XKJ/3	JN55ST	9	1131	126	IW6ATU/6	JN63QM			
21.	IZ1DNC/3	JN55ST	7	932	133	Error	Error			
22.	IV3FDO/3	JN65EN	7	806	115	IW6ATU/6	JN63QM	240	4	50
23.	I3IRV/3	JN55ST	2	365	183	IW6ATU/6	JN63QM			
24.	DK0PX	JN48JC	3	318	106					
25.	OM3U	JN88LE	3	273	91	OE5VRL/5	JN78DK	199	180	514
26.	DF0YY	JO62GD	1	206	206					
27.	OK1KKD	JO60WD	1	73	73	DF0MTL	JO60LK	73	4	518

5.7 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	G3XDY	JO02OB	13	3240	249	DK2MN		416	15	
2.	DK2MN	JO32PC	17	2841	167					
3.	DL3YEE	JO42GE	13	2436	187					
4.	DB6NT	JO50TI	12	2383	199					
5.	PA0EZ	JO22OF	15	2260	151	G8P	JO01QD	291		
6.	OE5VRL/5	JN78DK	10	2228	223			352	10	855
7.	OK1AIY/P	JO70SQ	15	2208	147	DB6NT	JO50TI	279	4	950
8.	PA5DD	JO22IC	14	2076	148	DF9QX	JO42HD	268		
9.	OK1AXH	JN79CX	15	2037	136	OL9W	JN99FN	309	15	428
10.	I4CVC	JN54WH	9	1900	211	I1TEX	JN35SA	351	3	35
11.	IW6ATU/6	JN63QM	8	1828	229	OE8MI/8	JN56UO	367	3	250
12.	DG1KJG	JO30NT	9	1721	191					
13.	OE8MI/8	JN66UO	8	1649	206			344	3	1750
14.	PA0WWM	JO22FE	11	1569	143	DL3YEE	JO42GE	279		
15.	DL6NCI	JO50VI	10	1465	147					
16.	DG5FEB/P	JO40PL	8	1392	174					
17.	F6APE	IN97QI	6	1330	222	F1GTX	JN03MW	402		
18.	OK1ES/P	JO70UR	12	1267	106	OK2KRT	JN99EJ	241	4	1602
19.	OK1VHF	JO70EB	11	1254	114	OL9W	JN99FN	298	6	370
20.	OK1UEI	JO70SS	10	1082	108	DF0MTL	JO60LK	186	0	1312
21.	DK2DB	JN48FW	5	1056	211					
22.	PA3AWJ	?	8	972	122	DG5FEB	JO40PL	368		
23.	IW3RMR	JN66PA	7	953	136	IW6ATU76	JN63QM			
24.	S53VV	JN65VL	5	844	169	IW1FQD/6	JN63ET	217	0.1	458
25.	G4LDR	IO91EC	5	623	125	G3XDY		223	15	
26.	OK1EM	JO60XS	7	560	80	OK1ES/P	JO70UR	123	0	725
27.	DL1SUN	JO53PN	2	559	280					
28.	F1BZG	JN07VU	4	553	138	F6APE	IN97QI	189		
29.	I0FHZ	JN62AP	2	538	269	IW3HTU/3	JN55PS	240	4	50
30.	OK1VVM	JO60WR	7	499	71	OK1ES/P	JO70UR	129	0	800
31.	DM2AFN	JO61WB	6	494	82					
32.	S51ZO	JN86DR	3	493	164	OL2R	JN89BO	320	0.2	317
33.	SP9SOO/p	JN99OW	5	490	98	OL2R		225		
34.	OK1DSO	JO70DC	5	340	68	OK1ES/P	JO70UR	122	0	400
35.	OK2BPR	JN99FN	4	312	78	OL2R	JN89BO	168	5	1323
36.	DL6NCO	JN59MI	3	268	89					
37.	F1BJD/P	IN98WE	2	247	124	F1BZG	JN07VU	147		
38.	DG4DW	JO31SO	6	239	40					
39.	DL2DR	JO31TO	7	229	33					
40.	DL1DAW/P	JO31UO	6	227	38					
41.	DC0KO/P	JO31TP	6	224	37					
42.	DJ5VW	JO31RJ	7	224	32					
43.	DL3IAS	JN49EJ	3	189	63					
44.	SP9QZO	JO90HB	3	155	52	OL9W		56		
45.	DJ6TA	JO30MS	3	99	33					
46.	OE1RVW	JN88GF	2	44	22			31	0	160
47.	DF1EQ	JO31NC	1	38	38					
48.	DC9DD/P	JO31TP	2	35	18					

10 GHz MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	G8P	JO01QD	34	8392	247	PI4GN		438	10	
2.	DK0NA	JO50TI	42	8219	196					
3.	OL2R	JN89BO	41	8151	199	S57C	JN76PB	399	6	798
4.	DL0GTH	JO50JP	40	8149	204					
5.	PA6C	JO33FB	36	7443	207	SK7MW	JO65MJ	501		
6.	PA6NL	JO21BX	37	7156	193	DK0NA	JO50TI	553		
7.	OK1KIR	JO60PM	44	6392	145	DK1KR	JO53HW	422	20	850
8.	OL4A	JO60RN	40	6369	159	S57C	JN76PB	518	5	920
9.	DL0NS	JO30EM	31	5129	165					
10.	OL7Q	JN99FN	31	4851	156	OK1VAM/P	JO60LJ	404	6	1323
11.	S57C	JN76PB	20	4807	240	OL4A	JO60RN	518	4.0	948
12.	OL6R	JO70LR	33	4757	144	DL1SUN	JO53PN	402	1	1012
13.	OK5Z	JN89AK	26	4579	176	DB6NT	JO50TI	332	3	
14.	OK2KJU	JN89SJ	28	4199	150	OK1VAM/P	JO60LJ	347	10	360
15.	PI4TUE	JO21RK	26	3975	153	DF6IY	JN48EU	355		
16.	PI4GN	JO33II	19	3942	207	G8P	JO01QD	439		
17.	PI4ZLD	JO11WM	24	3789	158	PI4GN	JO33II	281		
18.	OL9W	JN99FN	24	3447	144	OK1VAM/P	JO60LJ	404	5	1323
19.	OL1F	O70CG	26	2944	113	OM3LQ	JN88UT	300	5	268
20.	IW1FQD/6	JN63ET	13	2795	215	S51ZO	JN86DR	446	5	1600
21.	OK1KKD	JO60WD	22	2756	125	OL7Q	JN99FN	335	6	518
22.	DF0MTL	JO60LK	26	2739	105					
23.	OK2KRT	JN99EJ	21	2555	122	OK1VAM/P	JO60LJ	404	5	1024
24.	IW3HTU/3	JN55PS	18	2496	139	S57C	JN76PB	311	1	1700
25.	M1CRO/P	JO01PU	15	2344	156	PA6C		375	5	
26.	DK0MA	JO31GG	17	1999	118					
27.	PE1MMP	?	18	1905	106	G3XDY	JO02OB	315		
28.	DF0YY	JO62GD	11	1901	173					
29.	DK0OG	JN68GI	10	1901	190					
30.	OK2KYC	JN99BM	21	1878	89	OK1KIR	JO60PM	363	4	918
31.	DK0CWC	JO60RR	15	1868	125					
32.	OM3U	JN88LE	13	1836	141	OK2PWY	JO80HB	371	0.18	514
33.	G4MAP/P	IO82QL	12	1699	142	G8P		312	10	
34.	OK2KJT	JN99AJ	14	1574	112	OK1KIR	JO60PM	362	0	700
35.	I3XKJ/3	JN55ST	10	1569	157	IW6CVN/6	JN63QM			
36.	F1PHJ/P	JN19BC	8	1433	179	PA6NL	JO21BX	349		
37.	IV3FDO/3	JN65EN	12	1156	96	IW6CVN/6	JN63QM	240	4	50
38.	IZ1DNC/3	JN55ST	8	1117	140	IW6CVN/6	JN63QM			
39.	DL6SH/P	JN49SB	8	1008	126					
40.	OM3KEE	JN88UU	9	839	93	OK2PWY	JO80HB	156	0.2	970
41.	DK0PX	JN48JC	6	688	115					
42.	I3IRV/3	JN55ST	5	629	126	IW6CVN/6	JN63QM			
43.	DF0BG	JO30OX	8	610	76					
44.	OK1KRY	JN69SU	7	545	78	OK1AIY/P	JO70SQ	170	0	400
45.	DF0TEC/P	JO73CF	3	292	97					
46.	DH1NAX	JO50RK	5	213	43					
47.	DL0LB	JN49QA	3	192	64					
48.	S59R	JN76OM	2	166	83	OE8MI/8	JN66UO	115	0.1	1524
49.	DL0ON	JO50VF	2	103	52					
50.	DK0VH	JO31HB	1	63	63					
51.	DL0AR	JO50VF	1	18	18					

10 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	OK1VAM/P	JO60LJ	49	8156	166	DK1KR	JO53HW	425	10	1244
2.	OM3LQ	JN88UT	27	5961	221	DK0NA	JO50TI	471	5	960
3.	OK2TT	JO80OB	36	5688	158	DL0GTH	JO50JP	460	4	1464
4.	G3XDY	JO02OB	21	5511	262	DK2MN		416	10	
5.	PA0EHG	JO22HB	32	4850	152	G4EAT	JO01HR	277		
6.	OK1VHF	OK1VHF	35	4836	138	OL7Q	JN99FN	298	10	370
7.	S51ZO	JN86DR	15	4798	320	I4JED/4	JN54PD	484	5	317
8.	OK1AIY/P	JO70SQ	33	4793	145	DK0OG	JN68GI	338	4	950
9.	OK1DST	N79CX	37	4645	126	OL9W	JN99FN	309	1	428
10.	DB6NT	JO50TI	27	4522	167					
11.	DK2MN	JO32PC	29	4517	156					
12.	OE5VRL/5	JN78DK	20	4506	225			523	13	855
13.	OK2PWY	JO80HB	29	4503	155	DL6NCI	JO50VI	345	4	983
14.	PA5DD	JO22IC	29	4410	152	G4EAT	JO01HR	284		
15.	I4XCC	JN63GV	22	4183	190	OE5VRL/5	JN78DK	522	7	200
16.	DL6NCI	JO50VI	26	4133	159					
17.	PA0EZ	JO22OF	27	3713	138	G8P	JO01QD	291		
18.	DH8AG	JO31RL	23	3641	158					
19.	IW6CVN/6	JN63QM	16	3531	221	S51ZO	JN86DR			
20.	DL3YEE	JO42GE	20	3472	174					
21.	DG1KJG	JO30NT	23	3469	151					
22.	OE8MI/8	JN66UO	15	3303	220			344	3	1750
23.	PA0WWM	JO22FE	21	3091	147	DL3YEE	JO42GE	279		
24.	I4CVC	JN54WH	17	3008	177	S51ZO	JN86DR	436	3	35
25.	OK2QI	JO80OC	18	2932	163	OK1VAM/P	JO60LJ	305	2	1492
26.	PA5AO	JO31GW	19	2717	143	G3XDY	JO02OB	366		
27.	PA0WMX	?	19	2697	142	G4EAT	JO01HR	371		
28.	DL1SUN	JO53PN	12	2551	213					
29.	OE3LI	JN88EC	12	2337	195			346	5	182
30.	SP9FG	JN99XF	13	2075	160	SP3JBI		307		
31.	I4JED/4	JN54PD	8	2041	255	S51ZO	JN86DR	484	10	900
32.	IW3RMR	JN66PA	10	1907	191	IW6CVN/6	JN63QM			
33.	IZ4BEH/4	JN54TF	5	1869	374	S51ZO	JN86DR			
34.	PA0S	JO21FW	15	1794	120	G3XDY	JO02OB	223		
35.	9A2RK	JN74LL	8	1722	215	IZ4BEH/4	JN54TF	266		36
36.	OK1EM	JO60XS	20	1722	86	OK2TT	JO80OB	243	1	725
37.	SP9SOO/p	JN99OW	14	1579	113	OL2R		225		
38.	DM2AFN	JO61WB	14	1561	112					
39.	PA3AWJ	?	13	1289	99	PI4GN	JO33II	215		
40.	OK2BPR	JN99FN	12	1133	94	OK1AIY/P	JO70SQ	243	6	1323
41.	DJ6BU/P	JO40XL	8	1058	132					
42.	DK2DB	JN48FW	7	1011	144					
43.	OK1VVM	JO60WR	15	937	62	OK1WDR	JO70NA	119	1	800
44.	F6APE	IN97QI	5	891	178	F1PHJ/P	JN19BC	282		
45.	DL3IAS	JN49EJ	6	857	143					
46.	DL2ALI/P	JO50FU	8	813	102					
47.	DC7JF	JO62NJ	4	793	198					
48.	SP3JBI	JO91BR	4	752	188	SP9FG		307		
49.	OK1VHH	JO70CK	14	728	52	OK1AIY/P	JO70SQ	98	0	230
50.	SP9MX/p	JO90PO	5	659	132	SP9FG		160		
51.	DJ6TA	JO30MS	7	657	94					
52.	G4LDR	IO91EC	5	623	125	G3XDY		223	8	

10 GHz SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
53.	OK1JHM	JO70CO	11	600	55	OK1AIY/P	JO70SQ	94	0	593
54.	SP9DRP/p	JO90PO	4	585	146	SP9FG		160		
55.	OK1DSO	JO70DC	9	563	63	OK1AIY/P	JO70SQ	110	0	400
56.	DJ5VW	JO31RJ	11	560	51					
57.	DL1SUZ	JO53UN	5	541	108					
58.	F1BJD/P	IN98WE	4	485	121	F1UEI	JN07WU	153		
59.	F1BZG	JN07VU	4	483	121	F6APE	IN97QI	189		
60.	DL2DR	JO31TO	9	466	52					
61.	SP9QZO	JO90HB	6	445	74	SP9FG		133		
62.	DG2DAA	JO62GU	4	416	104					
63.	DL6NCO	JN59MI	4	290	73					
64.	DJ8MS	JO63AR	3	279	93					
65.	OK2VJC	JN99DP	4	216	54	OK2QI	JO80OC	93	0	600
66.	OK2ULP	JN89JU	4	208	52	OK2KYC	JN99BM	103	2	595
67.	OK2SIA	JN99DP	5	153	31	OK2TT	JO80OB	90	0	660
68.	9A3AQ	JN75WS	2	124	62	9A3PA	JN85EG	68	0	121
69.	DK3IK/P	JN39JF	1	122	122					
70.	SP3JMZ	JO82KJ	2	119	60	SP3JBI		114		
71.	DC6GS/P	JN68NI	1	86	86					
72.	DG4DW	JO31SO	3	71	24					
73.	DJ5NQ/P	JN47QT	1	54	54					
74.	DF9IC	JN48IW	2	44	22					
75.	OE1RVW	JN88GF	2	44	22			31	0	160
76.	DC9DD/P	JO31TP	2	35	18					
77.	DH1NFL	JO50VF	1	18	18					
78.	DC3NI	JO50TH	2	10	5					
79.	SP3LYU	JO82KK	1	5	5	SP3JMZ		5		

MM GROUP MO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	OL4A	JO60RN	9	960	107	OK1UEI	JO70SS	149	0	920
2.	DL0GTH	JO50JP	12	810	68					
3.	OK1KIR	JO60PM	7	778	111	DK0NA	JO50CI	220	1	850
4.	OL2R	JN89BO	6	756	126	OK2BPR	JN99FN	168	1	798
5.	DK0NA	JO50TI	9	689	77					
6.	IW3HTU/3	JN55PS	4	454	114	I4CVC	JN54WH	168		1700
7.	DF0MTL	JO60LK	5	347	69					
8.	PI4ZLD	JO11WM	4	347	87	PA0EZ	JO22OF	121		
9.	PA6NL	JO21BX	5	239	48	PA0EZ	JO22OF	80		
10.	PA6C	JO33FB	4	220	55	PE1CQQ/P	JO22TO	76		
11.	OL9W	JN99FN	1	168	168	OL2R	JN89BO	168	1	1323
12.	IV3FDO/3	JN65EN	1	88	88	IW3HTU/3	JN55PS	87	0	50
13.	DF0YY	JO62GD	2	62	31					
14.	G8IFT/P	IO82QL	1	42	42	G8VZT/P		42	0	
15.	DK0ZAB	JO61CU	1	40	40					
16.	PI4GN	JO33II	1	37	37	PA6C	JO33FB	37		
17.	G8OHM/P	IO82QL	1	9	9	G7VDE/P		9	0	

MM GROUP SO

Id.	Call	Loc.	QSOs	Points	km/QSO	ODX Call	ODX Loc	ODX QRB	Pwr	ASL
1.	OK1AIY/P	JO70SQ	9	1031	115	DF0MTL	JO60LK	185	0,5	950
2.	OK1UEI	JO70SS	7	771	110	OK1KIR	JO60PM	161	1	1312
3.	DL6NCI	JO50VI	9	581	65					
4.	DB6NT	JO50TI	8	570	71					
5.	PA0EZ	JO22OF	7	561	80	DJ6JJ	JO31LG	161		
6.	DL4BBU/P	JO31LP	10	547	55					
7.	DG8EB/P	JO60IL	5	491	98					
8.	DK2MN	JO32PC	5	346	69					
9.	DL2ALI/P	JO50FU	4	302	76					
10.	OK1VHF	JO70EB	4	292	73	OK1UEI	JO70SS	114	1	370
11.	OE5VRL/5	JN78DK	2	288	144			201	1	855
12.	DJ6BU/P	JO40XL	4	255	64					
13.	DL6NCO	JN59MI	2	238	119					
14.	DL2DR	JO31TO	8	230	29					
15.	DJ5VW	JO31RJ	7	221	32					
16.	PA0WWM	JO22FE	5	219	44	PI4ZLD	JO11WM	85		
17.	PA5DD	JO22IC	5	209	42	PI4ZLD	JO11WM	87		
18.	OK2BFF	JO80HB	3	208	69	OK1AIY/P	JO70SQ	104	0	983
19.	DC9DD/P	JO31TP	7	204	29					
20.	OK1JHM	JO70CO	2	190	95	OK1UEI	JO70SS	96	0	593
21.	DG4DW	JO31SO	7	186	27					
22.	I4CVC	JN54WH	2	181	91	IW3HTU/3	JN55PS	168	0	35
23.	OK2BPR	JN99FN	1	168	168	OL2R	JN89BO	168	1	1323
24.	DL3YEE	JO42GE	3	163	54					
25.	OK2QI	O80OC	2	137	69	OL2R	JN89BO	96	0	1492
26.	PA3AWJ	?	4	135	34	PA0EZ	JO22OF	56		
27.	PA5AO	JO31GW	2	99	50	DK2MN	JO32PC	55		
28.	DC6GS/P	JN68NI	1	86	86					
29.	PF2D	JO21WX	1	54	54	PA0EZ	JO22OF	54		
30.	DF9IC	JN48IW	1	18	18					
31.	DK2DB	JN48FW	1	18	18					

Overall score - MULTI OP

			Highes score/band:	155374	42539	15420	4385	8392	960	
Id.	Call	Loc.		432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
1.	DL0GTH	JO50JP		155374	37923	12743	2889	8149	810	**806626**
2.	OL2R	JN89BO		113311	23443	7802	4385	8151	756	**706194**
3.	PA6NL	JO21BX		138735	42539	12149	2896	7156	239	**690310**
4.	DK0NA	JO50TI		102145	21114	8091	3454	8219	689	**646860**
5.	G8P	JO01QD		126644	33002	7583	2499	8392		**567513**
6.	PA6C	JO33FB		116728	27412	10510	1611	7443	220	**553244**
7.	OL4A	JO60RN		141946	31920			6369	960	**531827**
8.	OK1KIR	JO60PM		71864	17205	6037	2451	6392	778	**526644**
9.	DF0MTL	JO60LK		127867	33588	7894	1553	2739	347	**491989**
10.	DL0NS	JO30EM		84791	20941	8592		5129		**342813**
11.	PI4ZLD	JO11WM		22346	11215	5785	2483	3789	347	**335892**
12.	OL9W	JN99FN		96978	9985	3064	1482	3447	168	**307843**
13.	DK0OG	JN68GI		114527	19844	3919	1243	1901		**305735**
14.	DF0OL	JO40BP		10312	36731	15420				**299846**
15.	PI4GN	JO33II		78850	14479	1924	1874	3942	37	**296495**
16.	DF0YY	JO62GD		126086	15913	4586	206	1901	62	**282947**
17.	M1CRO/P	JO01PU		82034	24482	6450		2344		**279844**
18.	S57C	JN76PB		71114	11159	791	1805	4807		**272799**
19.	OK5Z	JN89AK		71071	15934	3839		4579		**252730**
20.	OL6R	JO70LR		103441	4163	4282		4757		**249866**
21.	DL0ON	JO50VF		67681	18696	10111		103		**239755**
22.	IW3HTU/3	JN55PS		6261	2806	1621	1935	2496	454	**221098**
23.	DF0TEC/P	JO73CF		60324	22003	4333		292		**189756**
24.	IW1FQD/6	JN63ET		31607	8922	2354	1342	2795		**187213**
25.	PI4TUE	JO21RK		9192	1131	2404	2054	3975		**183921**
26.	OE3XUA	JN77XX		84374	16198	3830				**182129**
27.	OK2KRT	JN99EJ		31638	8158	1853	1466	2555		**179356**
28.	F1PHJ/P	JN19BC		26031	8182	2109	1489	1433		**156458**
29.	DF0HS/P	JO31AA		25309	34003					**149505**
30.	OL7Q	JN99FN			14589			4851		**143100**
31.	OK1KZE	JN79FX		90534	12963					**137881**
32.	OM3U	JN88LE		39926	14337		273	1836		**135958**
33.	DK0CWC	JO60RR		33451	8401	3370		1868		**132677**
34.	OK2KKW	JO60JJ		131147						**131147**
35.	PE1RLF/P	JO32BF		46340	10305	3921				**123488**
36.	OM3KEE	JN88UU		51351	8816	2208		839		**121333**
37.	OK1KPA	JN79US		41435	10279	3664				**115898**
38.	OL1F	JO70CG			16643			2944		**115295**
39.	OM0C	JN99PG		58142	12525	976				**113724**
40.	G5LK/P	JO01OC		78894	9301					**112866**
41.	DF0CI	JO51CH		110875						**110875**
42.	S59R	JN76OM		54365	14163	149		166		**110670**
43.	OK2KJU	JN89SJ		21755	2708			4199		**109389**
44.	OM3W	JN99BB		72852	9938					**109151**
45.	OK1KKD	JO60WD		30827	3668	853	73	2756		**106432**
46.	OK2KYC	JN99BM		30287	6655	1559		1878		**105073**
47.	HA5KDQ	JN97LN		55953	13325					**104623**
48.	DH1NAX	JO50RK		57044	8221	1265		213		**103761**
49.	OK2KJT	JN99AJ		37861	9259			1574		**100821**
50.	DK0MA	JO31GG			7224	3637		1999		**100043**
51.	DK0GNO	JO60QU		48987	4724	2352				**89941**

Overall score - MULTI OP

			Highes score/band:	155374	42539	15420	4385	8392	960	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
52.	DL0VR	JO31MI	35379	14631					88819
53.	OE5D	JN68PC	63623	5318					83047
54.	DF2JQ/P	JO31BC		16830	2047				82098
55.	S50C	JN76JG	81796						81796
56.	DK0HN	JO31PP	53809	7543					81360
57.	DF0MMO/P	JO40AQ	79078						79078
58.	F6KSL	JN28QJ	68588	2858					79027
59.	I3XKJ/3	JN55ST		2665		1131	1569		78858
60.	HA6W	KN08FB	45853	8951					78547
61.	DK0PX	JN48JC	26870	3521	1467	318	688		78518
62.	DL6SH/P	JN49SB	14379	6994	1724		1008		75959
63.	DL4YAJ	JO41PU	74163						74163
64.	OM3KII	JN88RS	52337	5862					73748
65.	DL0SE/P	JO31RF	72375						72375
66.	IZ1DNC/3	JN55ST	4231	2665		932	1117		67669
67.	DA0SAX	JN48MW	65100						65100
68.	IV3FDO/3	JN65EN				806	1156	88	64204
69.	SN6W	JO80FQ	61760						61760
70.	PI4FRG	JO23WE	37136	6538					61016
71.	DK0PU	JO31JN	34797	6904					60014
72.	DK0NO	JN59RJ	41068	5078					59615
73.	PE1MMP	?		6653			1905		59570
74.	DK0MA	JO31GG	32819	7224					59205
75.	S57O	JN86DT	58588						58588
76.	DL0PVD	JO49BO	50504	1713					56761
77.	F5HGO	JN05AI	22700	9186					56252
78.	G3OHM/P	IO82QL		8347	2494				55617
79.	9A3B	JN95FQ	55202						55202
80.	G8IFT/P	IO82QL				1331		42	53959
81.	DF0WD	JO42FD	52886						52886
82.	DF0BG	JO30OX	33369	2066			610		52209
83.	G5B	JO03CE		8501	2065				51857
84.	DL0GL/P	JO31KP	50214						50214
85.	OK1KRY	JN69SU	21576	4365	191		545		49534
86.	OM3KHE	JN99JC	34362	3946					48775
87.	OL1B	JO80IB	47532						47532
88.	OK1OPT	JN69NX	27807	5296					47151
89.	OK1KPU	JO60VR	46858						46858
90.	OK1KHQ	JO80BJ	23870	6082					46085
91.	DL0EE	JN49GK	32686	3544					45630
92.	OK1KLL	JN79IW		6619	1987				44197
93.	OK1KIK	JO70TQ	27610	4231					43064
94.	DL0KM	JO31BC	42551						42551
95.	9A1O	JN95IT	36834						36834
96.	DL0NMB	JO51WH	17556	2869	733				35421
97.	DL0LB	JN49QA	19323	2466	297		192		34877
98.	F6HLC	JN26HS	11296	4893	564				34851
99.	OL7C	JO60JJ	24176	2910					34805
100.	DL0MOL	JO62WM	27636	1649					33659
101.	DF0XG	JO51KW	32951						32951
102.	OK1KNG	JN69VN	24787	2140					32603
103.	DF0OVH	JN48BI		6076	924				31503

Overall score - MULTI OP

Highes score/band:			155374	42539	15420	4385	8392	960	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
104.	G4MAP/P	IO82QL					1699		31456
105.	9A7D	JN95CI	26721	1294					31447
106.	HB9BA/P	JN37SG	30714						30714
107.	SN7L	JO91QF	19877	2242					28066
108.	S51A	JN76PK	20693	1908					27662
109.	DL0FM	JN57GN	27596						27596
110.	OK1OFG/P	JO80KE		7538					27533
111.	OK1KKL	JO70PO	8249	3482	621				27224
112.	S53J	JN75EV	19489	1847					26235
113.	I3IRV/3	JN55ST	331	307		365	629		26031
114.	DK0ZAB	JO61CU	10351	2497				40	25945
115.	F6KIM	JN38BO	14709	2787					24889
116.	F6KPL	IN99IO	10363	3937					24743
117.	DL0OB	JO50MA	20287	1053					24133
118.	DL0KK/P	JO31FM	23710						23710
119.	G3SDC/P	IO92MP	6036	4798					23561
120.	EI9E	IO62ON	7823	4253					23357
121.	DK0XA	JO43WJ	14042	1827					20715
122.	OK2KET	JN89JM	11654	2304					20069
123.	DL0SAW	JO52NU	20023						20023
124.	DL0RTA	JO40GD	14938	1366					19927
125.	PA6F	JO22RM	19248						19248
126.	DF0FM/P	JN49MP	19171						19171
127.	OK2KPD	JO80UB	18906						18906
128.	OL7B	JN99CL	8272	2888					18820
129.	DF0KO	JO30UK	17649						17649
130.	OK1KFH	JN69VN	17509						17509
131.	HB9CLN	JN37XA	10809	1464					16156
132.	DK0XB/P	JO61KB	14977						14977
133.	4N1B	KN05CD	14439						14439
134.	S59DTB	JN86AO	12404	451					14051
135.	S59TTT	JN76TO	12952	266					13924
136.	HB9W	JN47IK	13899						13899
137.	G8OHM/P	IO82QL	12329					9	13786
138.	DB4BW	JO42AC		3543					12941
139.	LZ9W	KN12PP	12621						12621
140.	HB9DTX/P	JN36GU	7105	1427					12317
141.	OK2KEA	JN89EJ	2549	2564					11914
142.	DK0VH	JO31HB	3747	1169	270		63		11904
143.	DL0BL	JN49HE	11550						11550
144.	F5KEI/P	JN13FL	11339						11339
145.	DC0AD/P	JO33OO	10216	307					11337
146.	EA3FTT	JN02SE	11273						11273
147.	OK2KYZ	JN89XN	10632						10632
148.	F8KGL/p	JN19EC	10566						10566
149.	DL0STO	JO71AA	10289						10289
150.	DL0DLE	JO60BH	9621						9621
151.	SP9KDA/p	JO90IS	9185						9185
152.	PI4KAR	JO21OI	4610	1119					8697
153.	OL5GES	JN69SC	8632						8632
154.	DF0SAX	JO61VC	8290						8290
155.	SP9ZCJ/9	JO90WB	3019	1125					7128

Overall score - MULTI OP

			Highes score/band:	155374	42539	15420	4385	8392	960	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
156.	OM3RAL	JN98LR	6950						**6950**
157.	DN1BE	JO42AH		1890					**6903**
158.	DK0HG	JO61WA	6199						**6199**
159.	DL0BWS	JO64EB	5902						**5902**
160.	DL0DX	JO31JF	4158	382					**5553**
161.	OK1KMG	JO70GG	5117						**5117**
162.	DN1CUR	JO61KB	5112						**5112**
163.	EA6FB	JM09SB		1369					**5000**
164.	F1UCQ/P	JN12IW	4965						**4965**
165.	F1FJU	IN95QR	4902						**4902**
166.	F1CBC	JN09BO	3633	295					**4710**
167.	OK1KDO	JN69KL	3904						**3904**
168.	HB9FX/P	JN37XG	3810						**3810**
169.	DN4BW	JO42AC	3543						**3543**
170.	F5KSE/P	JN02SV	1496	81					**1792**
171.	DB0FJG	JO40GC	1671						**1671**
172.	EA6QB	JM09SB	1474						**1474**
173.	EA2AFF	IN91BM	1397						**1397**
174.	DL0HBN	JO50KM	1255						**1255**
175.	F6KNJ/P	JN38NP	1145						**1145**
176.	EA5AJJ	IM99SL	572						**572**
177.	DL0AR	JO50VF					18		**333**

Overall score - SINGLE OP

			Highes score/band:	89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.		432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
1.	G3XDY	JO02OB		12812	16110	8277	3240	5511		**312898**
2.	DK2MN	JO32PC		15414	12685	6462	2841	4517	346	**291207**
3.	PA5DD	JO22IC		1075	20879	7236	2076	4410	209	**281446**
4.	PA0EZ	JO22OF		8462	14291	5844	2260	3713	561	**277302**
5.	DL3YEE	JO42GE		22289	13466	7607	2436	3472	163	**274753**
6.	OE5VRL/5	JN78DK			11802	4018	2228	4506	288	**223854**
7.	DL1SUN	JO53PN		26219	15285	7785	559	2551		**211057**
8.	OK1AIY/P	JO70SQ					2208	4793	1031	**203667**
9.	DL6NCI	JO50VI		14374	4271	2447	1465	4133	581	**193443**
10.	DG1KJG	JO30NT			10470	5979	1721	3469		**189635**
11.	PA0WWM	JO22FE			6901	4599	1569	3091	219	**172088**
12.	DB6NT	JO50TI					2383	4522	570	**165400**
13.	S51ZO	JN86DR		43653	12980		493	4798		**158396**
14.	OK1UEI	JO70SS		2297	4526	1782	1082		771	**135551**
15.	I4CVC	JN54WH		3634	5231	975	1900	3008	181	**135160**
16.	OK1ES/P	JO70UR		37756	16137		1267			**132884**
17.	OK2TT	JO80OB		35657	8267			5688		**129005**
18.	PA0EHG	JO22HB			20030			4850		**127884**
19.	OK1VHF	JO70EB					1254	4836	292	**113378**
20.	DH9NFM	JO50RF		17338	24128					**107093**
21.	DK5PD	JN39VV		22659	21645					**103177**
22.	DG5FEB/P	JO40PL			7196	3489	1392			**103165**
23.	PA5AO	JO31GW		8848	5668	3116		2717	99	**102241**
24.	DK2DB	JN48FW		15080	4343	2192	1056	1011	18	**96952**
25.	OK1AXH	JN79CX				3509	2037			**94481**
26.	IW3RMR	JN66PA		5268	5082	1707	953	1907		**90070**
27.	OK1VAM/P	JO60LJ						8156		**89755**
28.	OK1VMS	JN69JJ		89755						**89755**
29.	I4LCK/4	JN54PD		70887	4916					**89174**
30.	PA1TK	JO22IJ		89042						**89042**
31.	DL3IAS	JN49EJ		3645	12235	2299	189	857		**88756**
32.	DL2DAO/P	JO31RF		1468	23089					**87358**
33.	F6APE	IN97QI		16592	5498	282	1330	891		**86751**
34.	PA3EXV	JO32KQ		47566	5692	1652				**86654**
35.	DL1SUZ	JO53UN		17060	7171	3276		541		**85214**
36.	DL3YCW/P	JO41PU			12474	3565				**85061**
37.	PA3AWJ	?			8087		972	1289	135	**82948**
38.	OE8MI/8	JN66UO					1649	3303		**82030**
39.	DK2OY/P	JO40IT		80187						**80187**
40.	IW6ATU/6	JN63QM			3366	1521	1828			**79654**
41.	DF1JM	JO30FQ		78794						**78794**
42.	SP9JDP	JN99HW		43496	6791	921				**78745**
43.	DK1CB	JO53CL		18858	6542	3225				**78166**
44.	OK2BFF	JO80HB			6129	3384			208	**77603**
45.	DL6NCO	JN59MI		10191	4237	1673	268	290	238	**75429**
46.	PA0S	JO21FW		493	5705	2966		1794		**73621**
47.	DK9IP	JN48EQ			19603					**72922**
48.	PA0WMX	?				3850		2697		**71429**
49.	DJ5IR	JN48EQ		69282						**69282**
50.	I0FHZ	JN62AP		14217	5664	1584	538			**67367**

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
51.	OM3LQ	JN88UT					5961		65600
52.	OK1VVM	JO60WR	17801	4745	484	499	937		64835
53.	DK8SG	JN48GT		17081					63540
54.	PE1GRJ	?	37881	6791					63143
55.	G0RRJ	IO91FE		7591	3142				62310
56.	DL9MCC	JN58UA	61920						61920
57.	OK1VEC	JO60LJ		10916	1845				60614
58.	DJ9KH/P	JO42OX	60586						60586
59.	OE8FNK/2	JN67NT	22150	6024	1453				60315
60.	DK1KC/P	JN58QH	40189	5407					60303
61.	DK6AS	JO52JJ	59994						59994
62.	PA0VVH	JO21WS		6989	2960				58097
63.	DL3WW	JO60FL	32031	3180	1147				56298
64.	OE3JPC	JN87EW	21886	9021					55444
65.	OE3GRA/6	JN77VN	21575	6341	851				54391
66.	DJ2IE	JN48GT	53529						53529
67.	DJ2QV	JO31PF	41446	3085					52922
68.	DL2DR	JO31TO	8805	2028	434	229	466	230	52550
69.	OK1EM	JO60XS	6445	2965		560	1722		51938
70.	OK2JI	JN89MW	18438	8942					51702
71.	OM5CM	JN98DF	21838	7923					51311
72.	OK1DST	N79CX					4645		51117
73.	9A2KK	JN85OV	27039	6213					50151
74.	OK2PWY	JO80HB					4503		49555
75.	DM2AFN	JO61WB		2150	951	494	1561		49174
76.	DL3TF	JO60RP	47913						47913
77.	DL4BBU/P	JO31LP						547	47620
78.	OK1WB	JO80DG	46715						46715
79.	DG2DAA	JO62GU	21285	3076	861		416		46642
80.	DJ6TA	JO30MS	6516	4144	1311	99	657		46120
81.	I4XCC	JN63GV					4183		46033
82.	DF8XC	JO42DC	45987						45987
83.	DK4VW	JO40IT		12296					45741
84.	DJ8MS	JO63AR	21033	5779			279		45601
85.	DL8UWE	JO60RP	45386						45386
86.	PE1EWR	JO11SL	22690	3454	850				44756
87.	DJ5VW	JO31RJ	2252	1457	493	224	560	221	44625
88.	S53VV	JN65VL		2737	987	844			44265
89.	OK2QI	JO80OC					2932	137	44193
90.	DB7YAH	JO42LH		11859					44115
91.	PF2D	JO21WX		5197	1846			54	44051
92.	DL8UCC	JO60TS	43820						43820
93.	OK1VEI	JN79CX	20429	6157					43333
94.	G4LDR	JO91EC	2732	1414	1032	623	623		43297
95.	OE3JTB	JN78QN	19197	6392					42975
96.	DG8EB/P	JO60IL						491	42745
97.	DJ3HW	JO42LH	42605						42605
98.	DH8IAB	JO30NO	17488	6505					41686
99.	HA5KHC			10803					40187
100.	DH8AG	JO31RL					3641		40068
101.	F1BZG	JN07VU	4479	3964		553	483		39859
102.	DG8RAN	JN69FU	25608	1455	782				39500

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
103.	IW6CVN/6	JN63QM					3531		**38858**
104.	DB6NI	JO50VI	38621						**38621**
105.	DK4QT	JO42DC		10308					**38345**
106.	DD5DX	JO61CA	15346	3590	866				**38091**
107.	OK1IA	JN79NU	18553	5191					**37863**
108.	OM3TZQ	JN98HP	37060						**37060**
109.	DK5DQ	JO31PG	36808						**36808**
110.	SP9SOO/p	JN99OW		773	269	490	1579		**36743**
111.	OK1RF	JN79KM	36324						**36324**
112.	S51SL	JN76PL	34746	387					**36186**
113.	OM1DK	JN88WK	35890						**35890**
114.	OK2UUJ	JO80NB	16643	5173					**35886**
115.	OK2BPR	JN99FN				312	1133	168	**35737**
116.	DL2ALI/P	JO50FU					813	302	**35238**
117.	OK2BDS	JN79WF	21306	3715					**35126**
118.	DC6BB	JO33UK	35053						**35053**
119.	DG6QF	JO61OA	24591	2681					**34564**
120.	OK1DSO	JO70DC	2988	1825	810	340	563		**34175**
121.	DJ6BU/P	JO40XL					1058	255	**33842**
122.	DB7HJ/P	JO53JQ	16475	4595					**33568**
123.	DJ8EN	JO31BP	33514						**33514**
124.	DG1MDQ/P	JN58NI	18641	3714					**32457**
125.	DJ5IO/P	JO50VF	32051						**32051**
126.	DK1IP	JO53EF	31744						**31744**
127.	DF9IC	JN48IW	29622				44	18	**31673**
128.	DC0KO	JO31TO	9162	3518	224	224			**30883**
129.	DH1MWO	JN58KS	30776						**30776**
130.	F1BJD/P	IN98WE	6563	3198		247	485		**30639**
131.	SP6A	JO81NG	30575						**30575**
132.	IZ4BEH/4	JN54TF		1039	515		1869		**30018**
133.	DF1EQ	JO31NC		5443	752	38			**29455**
134.	OM5LD	JN98BI	29421						**29421**
135.	DK1GO	JN58KS	29390						**29390**
136.	S53FO	JN76PL		7898					**29380**
137.	DG4DW	JO31SO	2214	233	239	239	71	186	**29267**
138.	HA8V	KN06HT	28546						**28546**
139.	OE1SOW	JN88FF	15164	3524					**28273**
140.	DF8XR	JO32MF	14369	3347	123				**28153**
141.	OE3REC	JN88HE	16276	3141					**27960**
142.	F5OAU/P	JN27UR	27671						**27671**
143.	DL3LAB	JO44XS	27287						**27287**
144.	IK4ADE	JN54OE		7324					**27245**
145.	DL3AMA	JO51ND	23679	913					**27075**
146.	DF9FD	JN49GU	27050						**27050**
147.	DH7FFE	JO40FC	11189	4193					**26787**
148.	DL5MAE	JN58VF	26312						**26312**
149.	OM3CQF	JN88RT	13024	3555					**26248**
150.	OK1KT	JO80CH	25868						**25868**
151.	DL6UFN	JO61OA	20004	1573					**25855**
152.	HB9WAH	JN47FD	25762						**25762**
153.	OE3LI	JN88EC					2337		**25718**
154.	OK1FC	JN69QB	25389						**25389**

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
155.	DK3WG	JO72GI	25253						**25253**
156.	DL1ARJ/P	JO60AR	16936	2123					**24833**
157.	DO1MGN	JO50AN	24734						**24734**
158.	SQ9W	JO90NH	24632						**24632**
159.	OK1VHH	JO70CK	9050	1982			728		**24434**
160.	DH5HV	JO31BS	24173						**24173**
161.	DJ8UV/P	JO41IN	24080						**24080**
162.	DM3ML	JO61VA	15267	2222					**23533**
163.	DL8QS	JO43KH	23496						**23496**
164.	DC9DD/P	JO31TP	835	265	224	35	35	204	**23364**
165.	DL3TW	JO44SK	23252						**23252**
166.	OK1JHM	JO70CO					600	190	**23144**
167.	IK3COJ	JN65BN		6159					**22911**
168.	SP9FG	JN99XF					2075		**22835**
169.	OK2UDE	JN89JS	22799						**22799**
170.	I4JED/4	JN54PD					2041		**22461**
171.	S57M	JN76PO	22128						**22128**
172.	OE3SJA	JN88GH	14217	2114					**22081**
173.	9A3AQ	JN75WS	6837	2713	345		124		**22035**
174.	DH0GHU	JN38VN	21448						**21448**
175.	DL3HXS	JO61CU	12132	2501					**21436**
176.	F6EJN/P	JN28KG	14976	1672					**21196**
177.	DF1VW	JN39HJ	20852						**20852**
178.	DG3LSM/P	JO61EG	13978	1835					**20804**
179.	DG7SFL	JN49XF	18257	662					**20720**
180.	DJ2EO	JO31BQ	7271	3510					**20328**
181.	DG8LAV	JO44SK	20263						**20263**
182.	YU1GT	KN04LP	20220						**20220**
183.	IK3TCH/3	JN55MQ		2142	1122				**20135**
184.	G4DEZ	JO03AE	17127	724					**19820**
185.	DJ5NQ/P	JN47QT	14401	1242			54		**19615**
186.	DG6NEL/P	JN59NC	11368	2199					**19548**
187.	DC3GR	JN49ED	18516	243					**19420**
188.	IK1PJU/1	JN44GK	19402						**19402**
189.	DJ1CW	JO42AH	14620	1248					**19263**
190.	OM5AL	OM5AL	13099	1616					**19110**
191.	DL2ZA	JN59VL	19070						**19070**
192.	9A2RK	JN74LL					1722		**18950**
193.	DC8RA	JN39LH	18676						**18676**
194.	DL7YS	JO62NM	9909	2341					**18617**
195.	F6GCT	JN18OU	11023	2037					**18601**
196.	OK2ULP	JN89JU	8418	2078			208		**18437**
197.	DJ0UO	JO31BQ	8097	2778					**18431**
198.	IK3TPP	JN65EP	18430						**18430**
199.	DK6HA/P	JO53JQ	10862	1998					**18294**
200.	DL8UAT	JO61TL	18060						**18060**
201.	DJ3XK	JO53AN	17927						**17927**
202.	DL1EJA	JO31DQ	17844						**17844**
203.	SP6IWQ	JO80HK	17833						**17833**
204.	OE6DRG/6	JN77KC	14624	850					**17786**
205.	OM5MX	JN98BG	17372						**17372**
206.	DJ3AK	JO52GJ	12397	1287					**17185**

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
207.	OK2PNQ	JN99EL	14827	622					17141
208.	OK2TF	JN89OW	5424	3079					16878
209.	DL8VK	JO40BX	16683						16683
210.	OK1IEI	JO70EC	7878	2254					16263
211.	F1NQP	JN19HL	6680	2553					16177
212.	S58RU	JN65TM	7347	2360					16126
213.	DG1MFI	JN58HX	16091						16091
214.	IK4WKU/4	JN54IE	15491						15491
215.	DM2BPG	JO51MP	15385						15385
216.	DK1LRS	JO53HN	15348						15348
217.	IV3MGN	JN66OD	2452	1515	661				15256
218.	DK4LI	JO44WQ	15112						15112
219.	PD4R	JO22XE	15028						15028
220.	DJ5CL	JN58VF	15008						15008
221.	DF4IAO	JN49HC		4032					14999
222.	DK6AJ	JO52GH	14921						14921
223.	DO2CT	JO50MO	14855						14855
224.	PE1BTL	JO21QP	7739	1912					14852
225.	DG4MNA/P	JN58HX	14782						14782
226.	DK7MP	JO31BS	14628						14628
227.	DB4BIN/P	JO42AH	11522	832					14617
228.	IZ2FOB	JN45MQ	14584						14584
229.	F6HJO/P	JN27FJ	10208	1092					14270
230.	DL6MHW	JO52TG	14180						14180
231.	DK3IK/P	JN39JF	12672				122		14015
232.	DF3RU	JN59UL	13967						13967
233.	OM7CA	JN98PP	9649	1143					13901
234.	DM2CKK	JO50ET	13793						13793
235.	OK1VBN	JN79HA	13722						13722
236.	DL6UKW	JO71FQ	13674						13674
237.	DG6ME	JO51JU	13399						13399
238.	I6CTJ	JN63SO	3945	2532					13364
239.	DL8UNF	JO60TS	13144						13144
240.	DL9LBH	JO30MP	13098						13098
241.	DL3HRT	JO61AB	11898	286					12962
242.	DH7LF	JO54CE	12839						12839
243.	F6BVA/P	JN24PE	5192	2016					12691
244.	OK2XCG	JN99JQ	12653						12653
245.	IK0VWO	JN62LH	12578						12578
246.	I3MMB	JN65BS	5267	1962					12566
247.	OK2UYZ	JN99FS	12390						12390
248.	DL2EEK	JO31BS	12370						12370
249.	SP9OJQ	JN99IW	8542	1026					12359
250.	DO3JV	JO31DQ	12283						12283
251.	DH1MJ/P	JO31TB	12123						12123
252.	SP3JBI	JO91BR	3832				752		12108
253.	DL9EE	JO54DF	11800						11800
254.	DC9FD/P	JO40PL		3172					11800
255.	OK1FHA	JO60RA	11486						11486
256.	S57BLJ	JN66WA	11459						11459
257.	DO1EG	JO31BS	11339						11339
258.	SP9MX/p	JO90PO	1593	665			659		11319

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
259.	DC1OBB	JO52IJ	6270	1335					11236
260.	SP1MVG	JO73FJ	6268	1297					11093
261.	OE3UXL	JN88DC		1328	565				11067
262.	DL4HG	JO53CM	10974						10974
263.	DL8BEH	JO42AH	10840						10840
264.	OM5UM	JN98EO	6965	1038					10826
265.	DG0ONW	JO50LP	5946	982	110				10792
266.	DF2IAX	JN49HC		2894					10766
267.	DL1ABA/P	JO52IJ	9728	264					10710
268.	SQ6AX/6	JO70QV	10654						10654
269.	DO1ET	JO31DQ	10641						10641
270.	SP9DRP/p	JO90PO	1708	665			585		10620
271.	PA3ERT	JO21RR	10572						10572
272.	IK1PLD/I1	JN34XF	10440						10440
273.	SP3JMZ	JO82KJ	6777	597			119		10307
274.	DL1ZC	JO52GG	4952	1438					10301
275.	OM3CVV	JN88ND	10182						10182
276.	DJ3SN	JN48SQ	10109						10109
277.	HA1WD/P	JN87GF	10073						10073
278.	DO1FOX	JO31PU	10060						10060
279.	OK1MHJ	JO70UD	10038						10038
280.	YU7FU	KN05DK	9927						9927
281.	I2XAV/2	JN44PR	9897						9897
282.	EA3BB	JN02IB	4472	1426					9777
283.	DF6WE	JO31GO	1496	1503	248				9776
284.	OE1RVW	JN88GF	2814	936	156	44	44		9691
285.	DG2MA	JO51VH	5158	1208					9652
286.	OM3WMA/P	JN88RT	5320	1143					9572
287.	DL1DAW	JO31UO	808		227	227			9558
288.	S57LM	JN76HD	9394						9394
289.	OK2UPG	JN99FN			864				9369
290.	DG5LDH	JO31CQ	9253						9253
291.	SP9QZO	JO90HB				155	445		9191
292.	DC7JF	JO62QL	334				793		9061
293.	OE6KDG/6	JN77EB		2429					9036
294.	DF7JU	JO31CQ	5748	866					8969
295.	PE1MWL	JO22GH	3411	1100	128				8891
296.	OK2WDC	JN89PO	8880						8880
297.	DL5HAU	JO53CN	8787						8787
298.	S59AW	JN65WX		2357					8768
299.	S51WI	JN75DS			782				8480
300.	S52CW	JN76CI	8437						8437
301.	HB9RNL	JN37SN	8104	89					8435
302.	DC6GS/P	JN68NI					86	86	8433
303.	OM2RL	JN88NR	8208						8208
304.	OM7CM	JN98NR	4880	855					8061
305.	SP9EWO/9	JN99LP	7977						7977
306.	OK1IAP	JN79CD	7948						7948
307.	DB3BW	JO42AC	7887						7887
308.	DF2PN	JO30TH	7656						7656
309.	DL2RTJ	JO62MI	7573						7573
310.	DL8AAV	JO52DH	7534						7534

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
311.	S57WW	JN86CM	3347	1111					7480
312.	OK1UDJ	JO70GG	7353						7353
313.	PE1DOY	JO22ID	7196						7196
314.	SP9BGS	JO90MG	3992	858					7184
315.	OK1MCW	JO70VE	7149						7149
316.	I1BPU/1	JN45CS	6948						6948
317.	OK2SIA	JN99DP		1394			153		6869
318.	DO1FT/P	JO40WM	6855						6855
319.	SP9UOP/p	JN99LP	6820						6820
320.	DJ8WK	JO40BX	6683						6683
321.	OK1AWJ	JO70EC		1789					6655
322.	DB8AH	JO31FO	6621						6621
323.	PD0RFU	JO32LS	6588						6588
324.	DC5RE	JO31DQ	6559						6559
325.	IK3MLF	JN55WJ	5235	348					6530
326.	DG3EX	JO31LG	6529						6529
327.	IK3ERQ	JN65BR	604	778	279				6524
328.	DG6YHA	JO42KH	6460						6460
329.	SP6VGJ/3	JO81HU	6341						6341
330.	DL1UTE	JO31QH	6306						6306
331.	IZ4EFR/4	JN54RI	6287						6287
332.	SP9MCY	JO90OG	6270						6270
333.	G8HGN	JO01FO	6212						6212
334.	DH8IAT	JN49GC	6206						6206
335.	IW2NOR	JN45ON	6203						6203
336.	DF1RD/P	JN69AM	6018						6018
337.	DL5AKF	JO50MX	5987						5987
338.	DJ9FG	JO52UD	5954						5954
339.	DD1QZ	JO31LN	5678						5678
340.	OK1CD	JO70GC	5646						5646
341.	DL2LMS	JO61FG	5498						5498
342.	F4DXX	IN97LH	5494						5494
343.	DL3RUN	JO62NL	5479						5479
344.	SQ9CWO	JO90FV	5371						5371
345.	DD1OP	JO42NG	5343						5343
346.	HB9TMW	JN36GU	2398	775					5281
347.	DL1ANA	JO50TW	5267						5267
348.	DJ9CS	JO54DG	5232						5232
349.	DG0OXI	JO51MD	5227						5227
350.	DK2YCT	JO32RG	5132						5132
351.	G4SJH	IO91PI		1366					5081
352.	IW3IAQ/3	JN55MQ	5052						5052
353.	DG0EK	JO60LT		1343					4996
354.	DM2EUN	JO60JU		572	264				4991
355.	DB3BX	JO42AE	611	1167					4952
356.	HB9DPY	JN37RA	4911						4911
357.	SP9MRM/6	JO81KG	4851						4851
358.	S50J	JN65VO	4832						4832
359.	DC3NI	JO50TH	4710				10		4820
360.	CT1DHM	IN61CC	3947	212					4736
361.	OK2VIA	JN89SN	4723						4723
362.	SP3EPX	JO83ID	4696						4696

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
363.	OM7AC	JN98NN	4650						4650
364.	OK1AIG	JO70NN	2222	630					4566
365.	IW3HXR	JN55QR	4564						4564
366.	OE3UXL	JN88DC	4541						4541
367.	DK8MCT/P	JN58KI	4521						4521
368.	PD2EZ	?	4487						4487
369.	DL5MEL	JN58IS		1195					4445
370.	IW2NEF/2	JN45QQ	4436						4436
371.	DK8JG	JO31IJ	4421						4421
372.	OK1CZ	JO70MA	4398						4398
373.	I0JXX	JN61GV	4363						4363
374.	9A4VM	JN85FS	4203						4203
375.	F5JJE	IN95JV	1359	758					4179
376.	DL8NCG	JO50UD	4165						4165
377.	DL2AVK	JO50NM	4133						4133
378.	OK2SRO	JN89SO	4109						4109
379.	PD5LO	?	4077						4077
380.	IW2DOY/4	JN44PO	4067						4067
381.	IW2MXY	JN45NO	4012						4012
382.	IZ6BTN/6	JN65MO	3908						3908
383.	OK1ZAJ	JN69JK	3861						3861
384.	OK2BTS	JN79XE	3852						3852
385.	DH4LH	JO54DF	3834						3834
386.	F6BHI/P	JN05PG	1768	554					3829
387.	SP3LYU	JO82KK	3757				5		3812
388.	OE1RGU	JN88DD	3806						3806
389.	I3XKJ/3	JN55ST	3798						3798
390.	DL1MGR/P	JN58KI	2632	307					3774
391.	OK2PMS	JN89WW	3756						3756
392.	EB5AYG	IM99TN		978					3638
393.	OK1ZDA	JO60MB	3634						3634
394.	IW3HYS	JN65DR	3571						3571
395.	DL5ARM	JO50JI	3555						3555
396.	OK1VLG	JO70TK	3539						3539
397.	OK1AFA	JO70FI	3537						3537
398.	IN3KLQ	JN56RG	3511						3511
399.	DF7YU	JN48OG	3445						3445
400.	OK1DPO	JO70CH	3443						3443
401.	DL2RML	JO62PQ	3430						3430
402.	OK2PHB	JN89PR	3336						3336
403.	DL7VZF	JO61WW	3310						3310
404.	DJ2YE	JO31LG	3295						3295
405.	DO3HF/P	JN58KI	3263						3263
406.	DM2AJK	JO50FT	3186						3186
407.	DF7DJ/P	JO33PF	3164						3164
408.	IZ2DQD	JN45OQ	3119						3119
409.	DL8EAQ	JO31MG	3117						3117
410.	PA5WT	JO22HG	3036						3036
411.	SP6LB	JO70UU	2974						2974
412.	DO4GL/P	JO42AH	2967						2967
413.	F1UFX	JN19EN	2928						2928
414.	OE1TKW	JN88DF	2880						2880

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
415.	DO1BVW	JO31DQ	2859						2859
416.	EA5AGR	IM88WV	2844						2844
417.	DF2AP	JO50JX	2843						2843
418.	OE6WUD/3	JN88FD	2841						2841
419.	SQ5BE	KO02VA	2775						2775
420.	SQ5HD	KO02VA	2775						2775
421.	SQ9CWN/5	KO02VA	2775						2775
422.	F4DVO/P	JN18AB	2767						2767
423.	DG5YHA	JO42KH		699					2600
424.	HB9ABN	JN47QK	2478						2478
425.	DL1DKB	JO40BX	2451						2451
426.	DD1JSN	JO72GI	2439						2439
427.	OM7AKA	JN98NO	2394						2394
428.	I4CIV	JN63FX	2393						2393
429.	OK2JJA	JN89LW	2383						2383
430.	OK2VJC	JN99DP					216		2377
431.	S56WRI	JN65UM	2357						2357
432.	OK1VAV/P	JN79FW	2275						2275
433.	IW0BET	JN61FS	2266						2266
434.	DK7DV	JO31PL	2236						2236
435.	DL1HWM	JO61BB	2182						2182
436.	IW2LC	JN45OL	2178						2178
437.	DM4NF	JO61SL	2119						2119
438.	OK1XPB	JO70DK	2103						2103
439.	OK1MG	JO70BD	2059						2059
440.	OK1ZHV	JO80BG	2026						2026
441.	SQ9QU	JO90KH	2019						2019
442.	DO1PKL	JO61EH	1931						1931
443.	F1TRE	JN37OU	1835						1835
444.	DG1MJS/P	JN58KI	1786						1786
445.	IK2XZE	JN45QU	1780						1780
446.	SP9MRK	JO90NH	1743						1743
447.	DL5LST	JO61EI	1712						1712
448.	DJ6TK	JO53FG	1647						1647
449.	DO5HSH	JO53AN	1639						1639
450.	DL6UWK	JO61SK	1612						1612
451.	DL6UAM	JO71ES	1609						1609
452.	DL1OBF	JO42MG	1503						1503
453.	EA4LU	IM68TV	1488						1488
454.	DL2EZ	JO31EM	1384						1384
455.	F1TPL	JN18ET	1375						1375
456.	G3YJR	IO93FJ	529	227					1373
457.	DL3AWI	JO51MF	1290						1290
458.	I3JUK	JN55WJ	1287						1287
459.	SP6CIZ	JO81LB	1262						1262
460.	DF4AJ	JO42MG	1246						1246
461.	IK2YSJ	JN45MM	1218						1218
462.	EB3GIG	JN02QD	1166						1166
463.	SP3SXX	JO82KJ	1160						1160
464.	OK2BWA	JN89PR	1149						1149
465.	S57OGC	JN76ID	1125						1125
466.	DO7HR/P	JN58KI	1097						1097

Overall score - SINGLE OP

	Highes score/band:		89755	24128	8277	3240	8156	1031	
Id.	Call	Loc.	432	1.3 GHz	2.3 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
467.	OM3WAN	JN99IF	563	140					**1084**
468.	DJ5VI	JN59UM	1063						**1063**
469.	OK1PGS	JN69RS	1042						**1042**
470.	S56HCE	JN75AP	1011						**1011**
471.	IW1ABM	JN34TW	1009						**1009**
472.	OK1URO	JO70EK	957						**957**
473.	SQ2EEQ	JO94JC	466	122					**920**
474.	SP3XBO	JO81XR	902						**902**
475.	IW1FGZ	JN35UB	866						**866**
476.	F5MGD	JN07AW	859						**859**
477.	OK1UOW	JO80CA		229					**852**
478.	OM4ADM	JN98CW	828						**828**
479.	DL2JRM/P	JO60IX	801						**801**
480.	DH4NWG	JN59RM	752						**752**
481.	F5NL/P	JO00SH	729						**729**
482.	F8ACF	IN87KL	721						**721**
483.	DO1AYJ	JO50TV	717						**717**
484.	DD4EC	JO31DQ	656						**656**
485.	2E1GUA	JO01FR	652						**652**
486.	IW6DCN/6	JN63TM	299		31				**635**
487.	CT1FOP	IN60CG	603						**603**
488.	EA3GCJ	JN11EM	571						**571**
489.	DL1KAS	JO30UX	566						**566**
490.	I3NGL	JN65DR	548						**548**
491.	EB3GEK	JN01UI	541						**541**
492.	HB3YFQ	JN37XI	539						**539**
493.	DG8YHB	JO31NO	512						**512**
494.	DK1WB	JO52FG	506						**506**
495.	DL3VNL	JO61UB	500						**500**
496.	DK2HD	JN48EX	196	77					**482**
497.	I2FUM/2	JN45RT	471						**471**
498.	OM3WAO	KN09DD	382						**382**
499.	F5JQO	JN18EV	322						**322**
500.	DL2LFH/P	JO62MJ	302						**302**
501.	DL7UIO	JN48EX	297						**297**
502.	DF7HJ/P	JO53CL	254						**254**
503.	DG3UAS	JN49JC	212						**212**
504.	DH1NFL	JO50VF					18		**198**
505.	DJ4HH	JO50UH	194						**194**
506.	DJ6QS	JO31QJ	181						**181**
507.	DL9OT	JN48EX	54	32					**173**
508.	DL8BTE	JO62TQ	172						**172**
509.	DG2YIR	JO42KF		20					**74**
510.	SP3TL	JO72QP		7					**26**
511.	SP3WVG	JO72OR		7					**26**

Comments on the results

On the basis of our experiences at processing contest logs of the contests organised in Slovenia, the judging committee was confident that all or at least the majority of the logs of IARU R1 UHF / microwave 2003 competition will be available in electronic form. Unfortunately this wasn't the case.
Judging by the analysis of the received logs we found that contestants used various programs for managing their logs. The majority of these programs include the option of saving the log in the IARU R1 standard EDI format. If the used software doesn't support this then there are a lot of different converters on the INTERNET. Of course, the use of others formats of logs demands additional work and simultaneously there exists a danger of data loss due to conversion (e.g. lost information of exchanged report).
Since the judging committee didn't have all of the logs in electronic form it couldn't use any modern method of log checking (e.g. OM1CW (SK)). The results gathered this way could be even more real than results prepared by national VHF managers.
The consequence of this is that in international results, the contestants, the national committee of which used multiple logs gathered from neighbouring countries for control, suffered. These committees found multiple erroneous QSOs and deleted them. In the cases where additional logs weren't used fewer QSOs were deleted and the contestants had more points.
For a fair international ranking all of the contest logs would have to be checked in the same manner. This means that all participants (those at least, that want to be ranked) send their logs in electronic EDI format. Only this way the international results can become comparable and fair towards all participants. Of course the IARU R1 C'TEST rules would have to be changed accordingly.
In addition to that it is possible to gather a multitude of statistical data from the analysis of the electronic logs which the contestants can use to prepare their strategy for the next contest.
The judging committee that processed the data IARU R1 UHF / microwave contest of October 2003 used an automatic data evaluation for the purposes of preparing and publishing the statistical data for this contest and preparing results for the countries which sent no official national results but only electronic logs.
Following is a list of programs which VHF contest EDI or ADIF standard is supported. Also added is a list of software that was used to convert various formats or to create the results and statistics.

List of some EDI/ADIF compatible contest programs

Ime programa	URL
VHFCtest4Win	http://lea.hamradio.si/~s52aa/vhfctest4win/
VHFCTEST	http://lea.hamradio.si/~s53ww/Vhfctest/vhfct.htm
Atalanta LOCATOR	http://www.qsl.net/ok1duo/locator.htm
CONTEST Assist	http://www.geocities.com/ik3sca/scaconte.htm
N1MM	http://n1mm.com/
TACLog	http://rudius.net/oz2m/taclog/index.htm
Tucnak	http://tucnak.nagano.cz/tucnak1en.html
VUSC	http://www.qsl.net/ok2kkw/programs.htm
Win-Contest	http://homepages.compuserve.de/DD3KU/index.htm
Win-Test	http://www.win-test.com/
WinOnContest	http://www.uba.be/soft/winoncontest/winoncontest.html
XLog	http://pg4i.mattsnetwork.co.uk/linux/xlog.html
ADIF spec.	http://www.hosenose.com/adif/adif.html
EDI spec.	http://slovhf.net/download/3ha1.pdf
PROADIKON	http://www.qsl.net/dl9ho/
EDI2ADIF	http://sp7ps.pl/sp7dqr/eng/index_en.html

List of programs used in creating the results

- VHFCtest4Win - S52AA
- VHFCTEST – S53WW
- LX117 LogXchecker – OM1CW(SK)
- VHFCHECK – S59W
- LogControl – S52AA
- LogStat – S52AA
- ADIF2EDI – S55HH
- +++

National specifics

9A
Received 12 logs in EDI format. Not all of them had correctly noted frequencies which was later fixed. S59W software was used to create a list of received results that was used for the final ranking.

S5
Received 45 logs in EDI format. For the final ranking the S5 final national results were used.

OK
Received 206 logs in EDI format; 3 of them had non-standard frequency notation. For the final ranking OK final national results were used.

OM
Received 45 logs in EDI format; 1 had non-standard frequency notation. S59W software was used to create a list of received results that was used for the final ranking.

LZ
Received one EDI log. S59W software was used to create a list of received results that was used for the final ranking.

PA
Received 93 logs in EDI format. While the format of the received logs was EDI, that data was unusable. All of the logs contained a wrong date (we assume this was the date of format conversion). Because of this the logs weren't used in the informative comparison. Some of them even had a reversed order of received and sent report. For international ranking the national results were used in which a single error was found and corrected.

YU
Received 3 logs in EDI format. We changed the format of one and the national list was made using the S59W check log software

DL
Received 533 paper logs of which 505 logs were printouts from various software the contents used. We received the national ranking, in which 543 contestant were listed, and that information was used for the final international ranking. For analysis we used DL9MCC's log and DL0GTH's log published on their WEB page (ADIF and TXT transformation made by S55HH).

OE
We received a multitude of files and 3 of them were in EDI. For the final international ranking, the national results were used.

F
We received only paper logs. For the final international ranking the national ranking was used. Received EDI logs (37) were used for statistical evaluation..

I
We received 16 logs in EDI format and about 80 logs in other formats. We converted 55 of them into EDI format and we used them for statistical evaluation. For the international ranking the national results were used.

G, EI9
For the international ranking we used the national results. We also received 7 EDI logs and some 30 logs in other formats..

HA
We received 3 logs in EDI format and 4 in ASCII format. We used them for the international ranking.

SP
No logs. On advice from SP6VGJ we used the official SP results published on their WEB page.

CT1
Logs in paper form and data gathered from them were used for international ranking.

HB9
Logs in paper form and data gathered from them were used for international ranking.

EA
Logs in paper form and data gathered from them were used for international ranking.
.

Number of contestants by country

	9A	CT1	DL	EA	EI	F	G	HA	HB9	I	LZ	OE	OK	OM	PA	S5	SP	YU	Sum
MO	3	0	64	5	1	13	9	2	5	6	1	2	36	7	10	8	4	1	**177**
SO	4	2	231	7	0	20	8	3	6	49	0	18	68	19	23	16	35	2	**511**
MO+SO	**7**	**2**	**295**	**12**	**1**	**33**	**17**	**5**	**11**	**55**	**1**	**20**	**104**	**26**	**33**	**24**	**39**	**3**	**688**

UNOFFICIAL STATISTICAL DATA

The following data was made on the basis of the received contest logs in electronic format (EDI, ADIF and other convertible formats). The statistic represents only a partial view of the contest in is meant for informative purposes only..

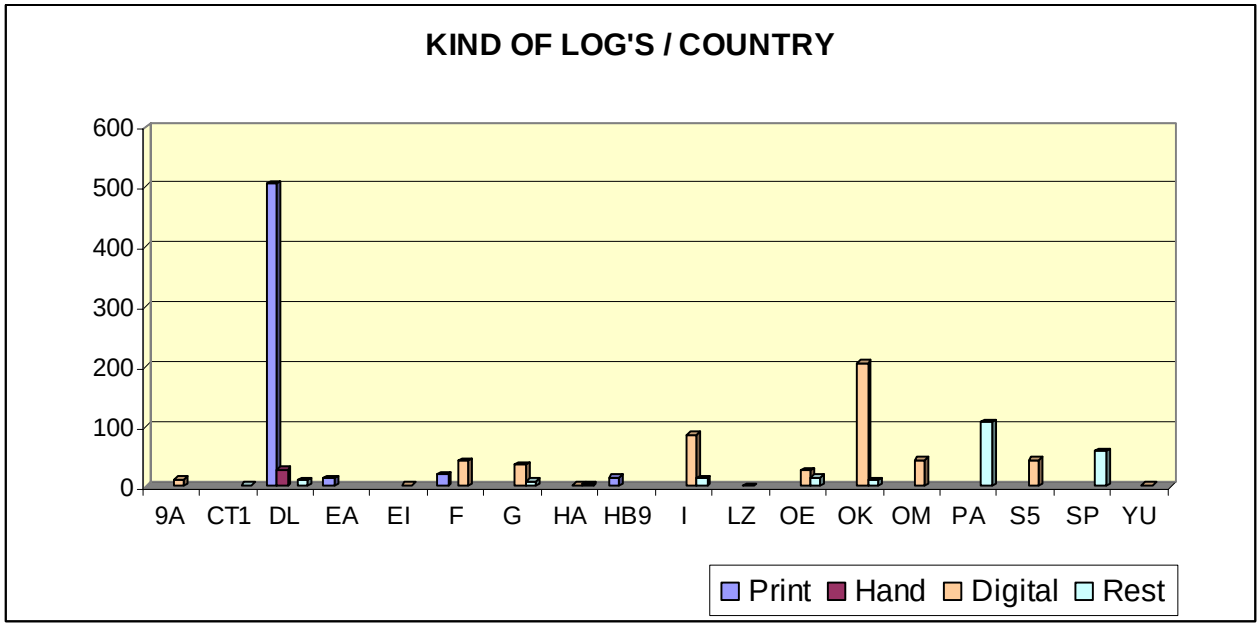
Number of active stations by country[3]

	432 MHz	1.3 GHz	2.3 GHz	3.4 GHz	5.7 GHz	10 GHz	MM GROUP	Overall
9A	16	5	4			3		28
DL	732	193	61	26	20	54	17	1103
EA	4	1						5
EI	1	1						2
Exot	13	3						16
F	198	61	7		6	9		281
G	56	33	11	6	5	9		120
GW	5	1						6
HA	68	24	2					94
HB	31	1				2		34
HM	4							4
HP	1							1
I	180	49	17		21	23	5	295
LZ	4	1						5
OE	50	22	6		4	6		88
OK	200	75	21	12	14	41	12	375
OM	48	19	3		1	4		75
ON	28	9	4		1	4		46
OZ	10	6				1		17
PA	112	57	22	9	9	21	12	242
S5	49	17	4	2	5	5		82
SM	2	2	2			1		7
SP	55	10	3		2	5		75
UR	4	4						8
YO	26	2						28
YU	19	3						22
Overall	1916	599	167	55	88	188	46	**3059**

[3] Unofficial result of statistical evaluation

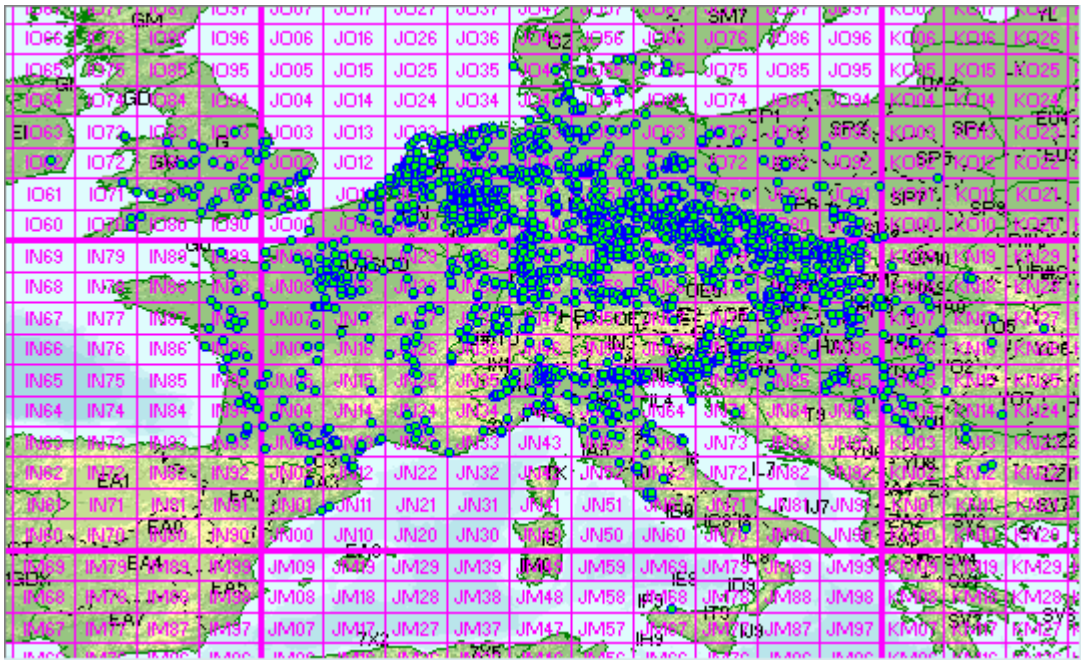
Types of logs received by country

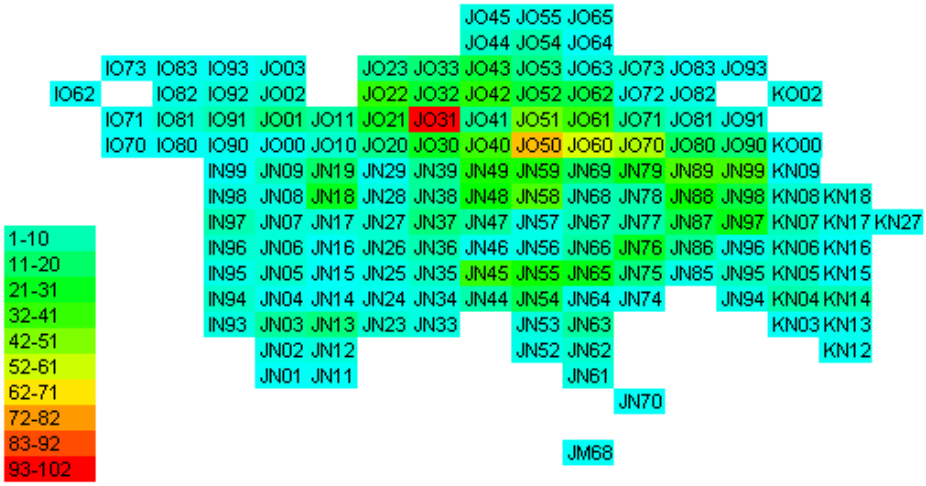
	9A	CT1	DL	EA	EI	F	G	HA	HB9	I	LZ	OE	OK	OM	PA	S5	SP	YU	Sum
Print			505	13		20			15										553
Hand			28																28
Digital	12				2	42	37	3		87	1	27	206	45		45		3	510
Rest		3	10				9	4		13		16	11		107		59		232
Overall	12	3	543	13	2	62	46	7	15	100	1	43	217	45	107	45	59	3	1323



Contest stations density including 10 ODX QSO's

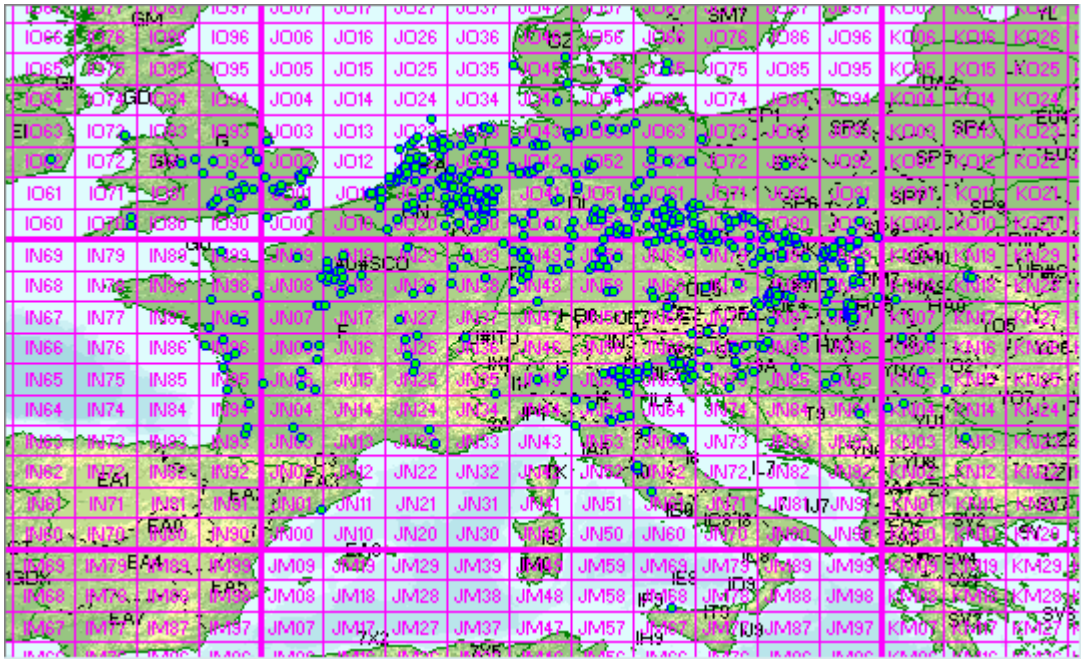
432 MHz

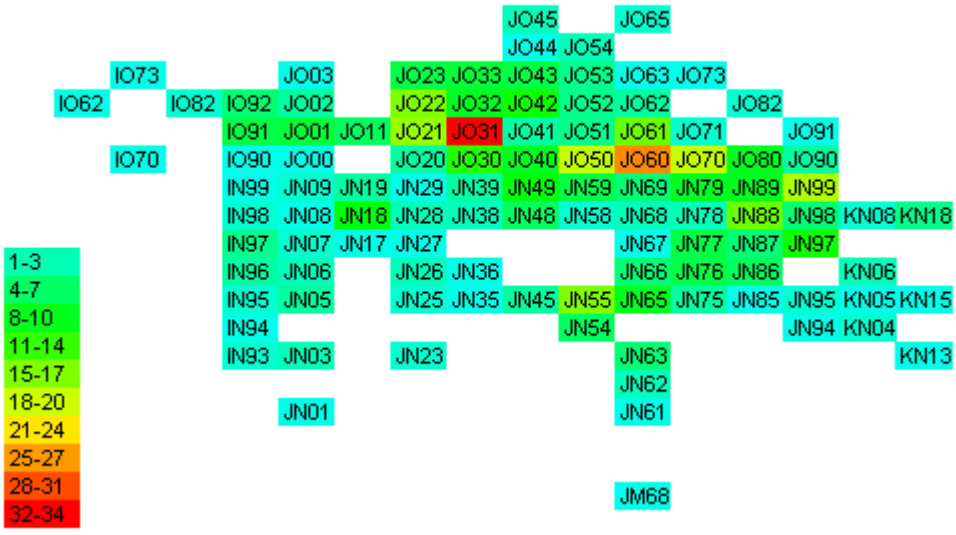




432 MHz - TOP 10 DX					
1	DL0GTH	JO50JP	G8OHM/P	IO82QL	949
2	YU1GT	KN04LP	DF0MTL	JO60LK	880
3	OL9W	JN99FN	DF1JM	JO30FQ	864
4	OL4A	JO60RN	G5LK/P	JO01OC	862
5	DL0GTH	JO50JP	G3LTF	IO91GG	860
6	OL4A	JO60RN	M1CRO/P	JO01PU	859
7	OE3XUA	JN77XX	ON4PS/P	JO20JN	859
8	OM3W	JN99BB	DL0NS	JO30EM	858
9	OL4A	JO60RN	G8DGZ	JO01PJ	856
10	OK2KKW	JO60JJ	YU1EV	KN04CN	855

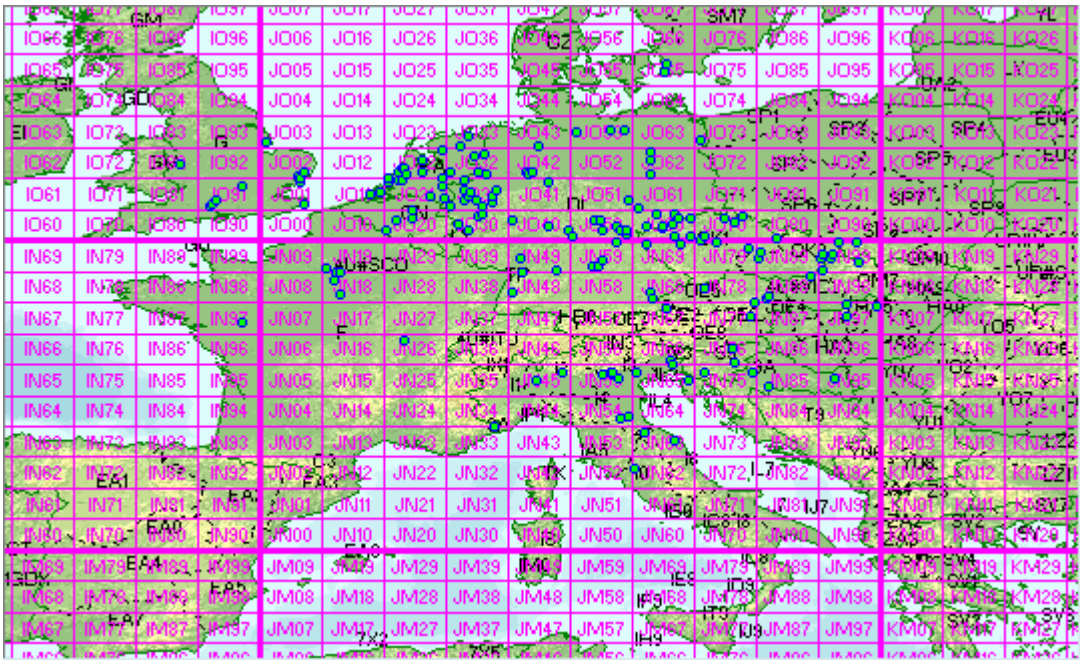
1.3 GHz

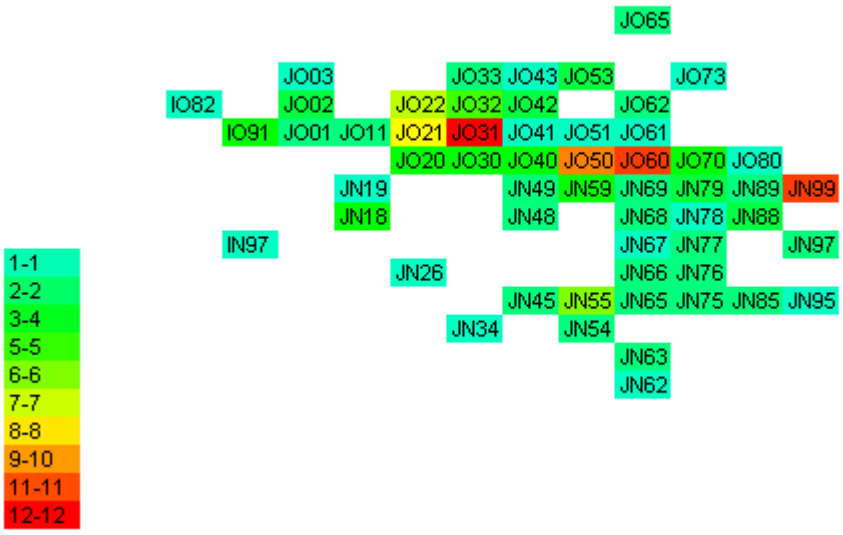




1.3 GHz - TOP 10 DX					
1	OL2R	JN89BO	LZ9X	KN13IP	832
2	DL0GTH	JO50JP	G5B	JO03CE	779
3	OM3W	JN99BB	DK5PD	JN39VV	752
4	I0FHZ	JN62AP	DK2GR	JN59IE	735
5	OL2R	JN89BO	DF0HS/P	JO31AA	733
6	OL1F	JO70CG	PA6NL	JO21BX	729
7	OK1KZE	JN79FX	PA0EHG	JO22HB	726
8	PA6NL	JO21BX	DK0OG	JN68GI	722
9	OK1KZE	JN79FX	PA5DD	JO22IC	721
10	OM3W	JN99BB	DK9IP	JN48EQ	714

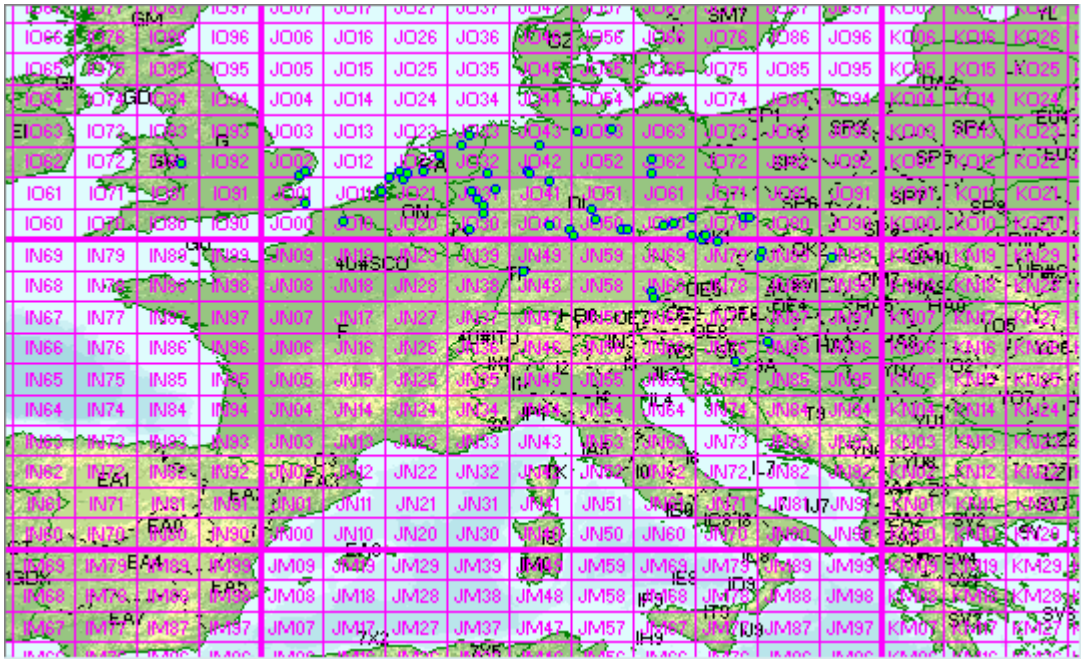
2.3 GHz

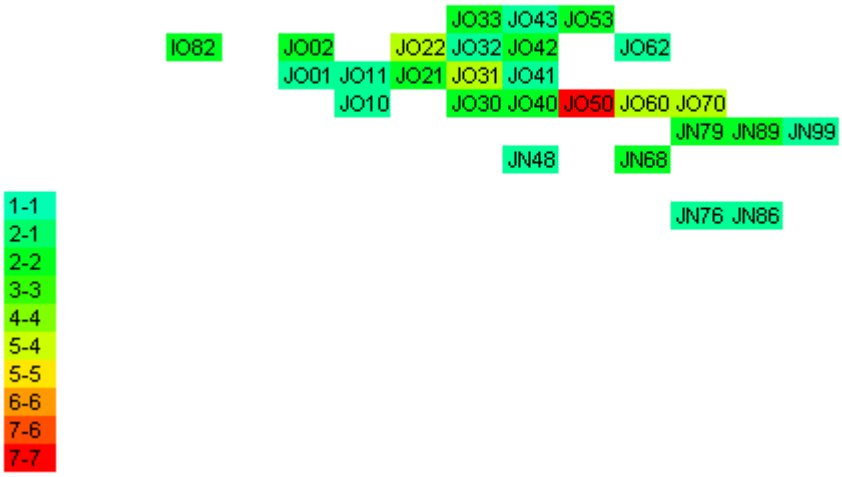




2.3 GHz - TOP 10 DX					
1	PA6NL	JO21BX	SK7MW	JO65MJ	699
2	PA5DD	JO22IC	SK7MW	JO65MJ	659
3	OL2R	JN89BO	DG1KJG	JO30NT	655
4	OL2R	JN89BO	DF0OL	JO40BP	582
5	OK5Z	JN89AK	DF0OL	JO40BP	581
6	PA6C	JO33FB	G3LTF	IO91GG	576
7	PA6NL	JO21BX	DL6NAA	JO50VF	570
8	PA6NL	JO21BX	DL6NCO	JN59MI	568
9	OL9W	JN99FN	DL0GTH	JO50JP	560
10	OL2R	JN89BO	DL1SUN	JO53PN	553

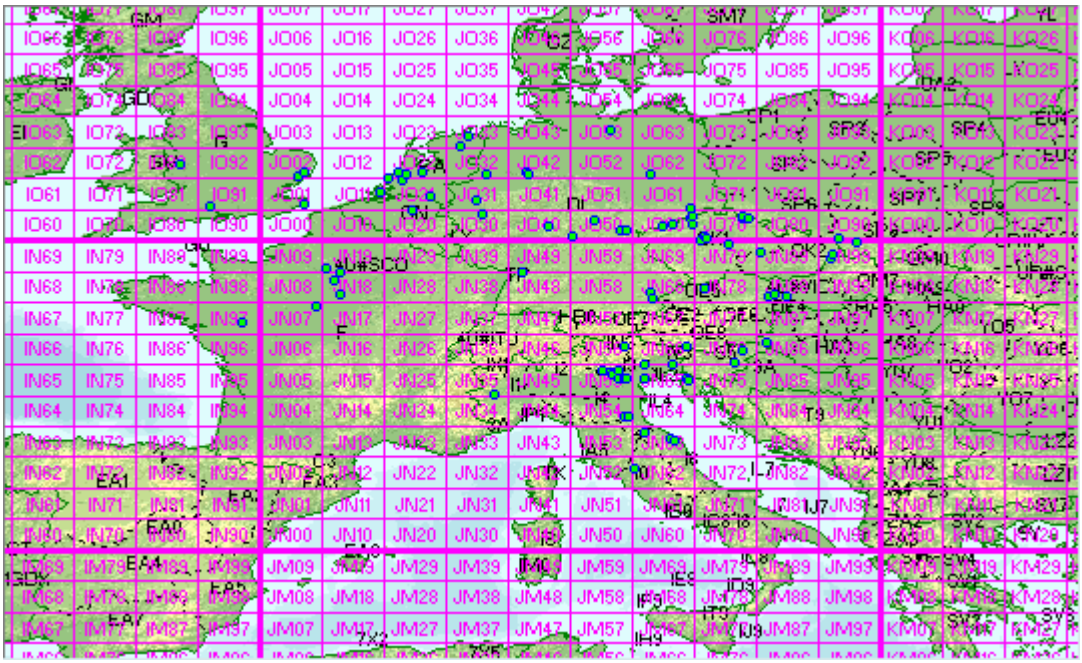
3.4 GHz

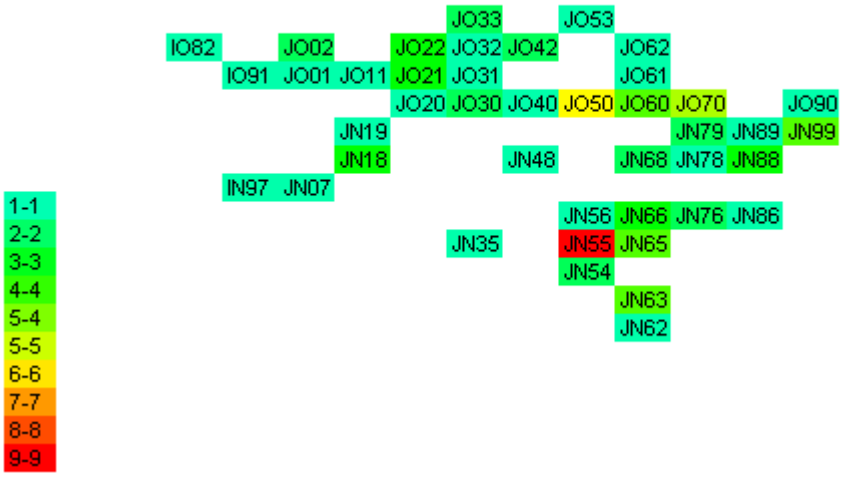




3.4 GHz - TOP 10 DX					
1	PA6NL	JO21BX	DK0NA	JO50TI	553
2	G3XDY	JO02OB	DL3YEE	JO42GE	501
3	PA6NL	JO21BX	G3OHM/P	IO82QL	463
4	DL0GTH	JO50JP	PA3AWJ	JO21GW	458
5	G3XDY	JO02OB	DK2MN	JO32PC	416
6	PI4GN	JO33II	DL0GTH/P	JO50JP	411
7	G3XDY	JO02OB	DJ6JJ	JO31LG	407
8	OL2R	JN89BO	DL0GTH	JO50JP	398
9	PA6NL	JO21BX	DG5FEB/P	JO40PL	397
10	G3XDY	JO02OB	PA6C	JO33FB	372

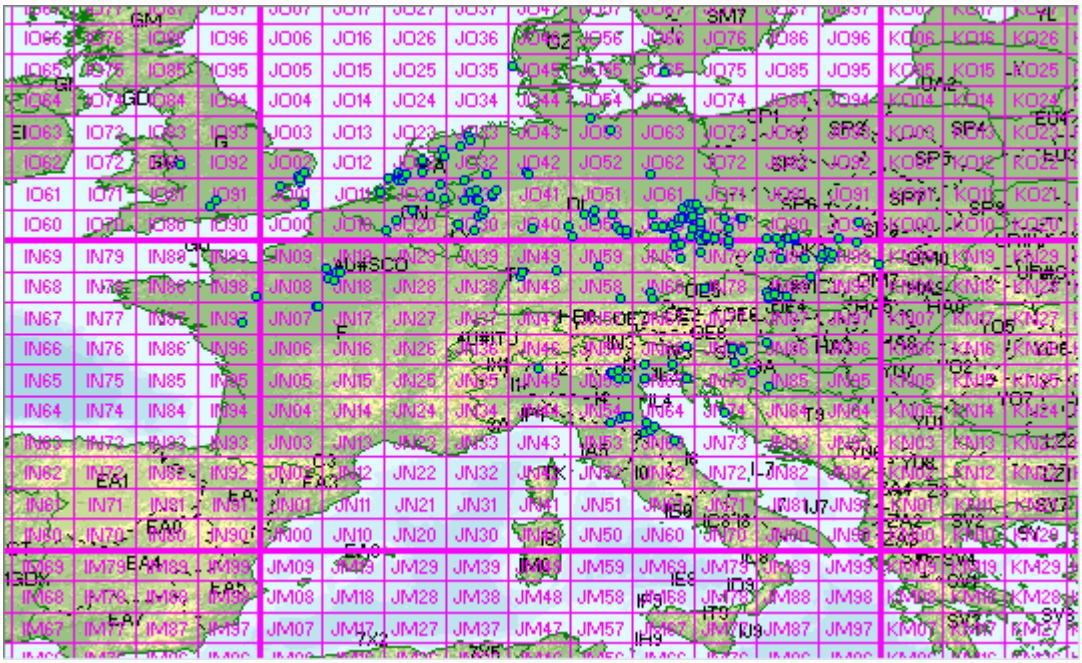
5.7 GHz

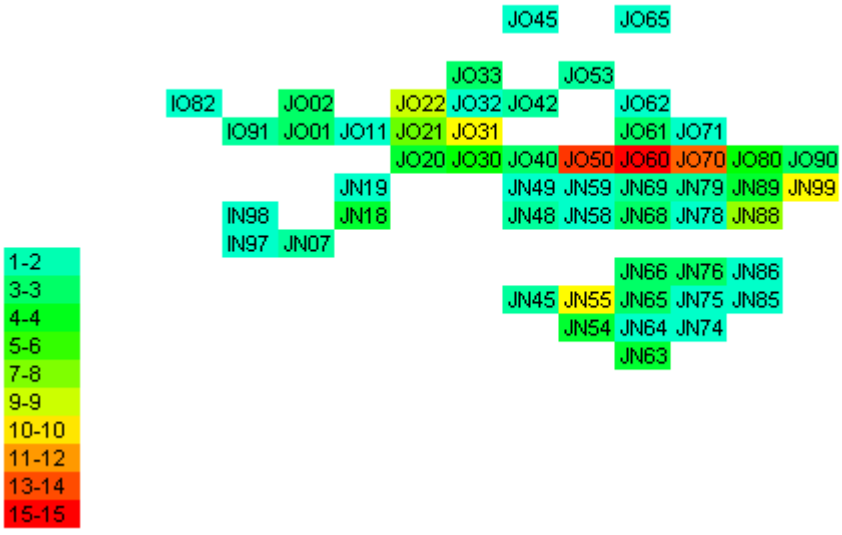




5.7 GHz - TOP 10 DX					
1	G3XDY	JO02OB	DK2MN	JO32PC	416
2	G3XDY	JO02OB	DJ6JJ	JO31LG	407
3	OL2R	JN89BO	DL0GTH	JO50JP	398
4	PA6NL	JO21BX	DG5FEB/P	JO40PL	397
5	OK1KIR	JO60PM	OK2KRT	JN99EJ	385
6	OK1KIR	JO60PM	OL9W	JN99FN	384
7	G3XDY	JO02OB	PA6C	JO33FB	372
8	IW6ATU/6	JN63QM	OE8MI/8	JN56UO	367
9	DL0GTH	JO50JP	OE5VRL/5	JN78DK	353
10	I0FHZ	JN62AP	IW3HTU/3	JN55PS	353

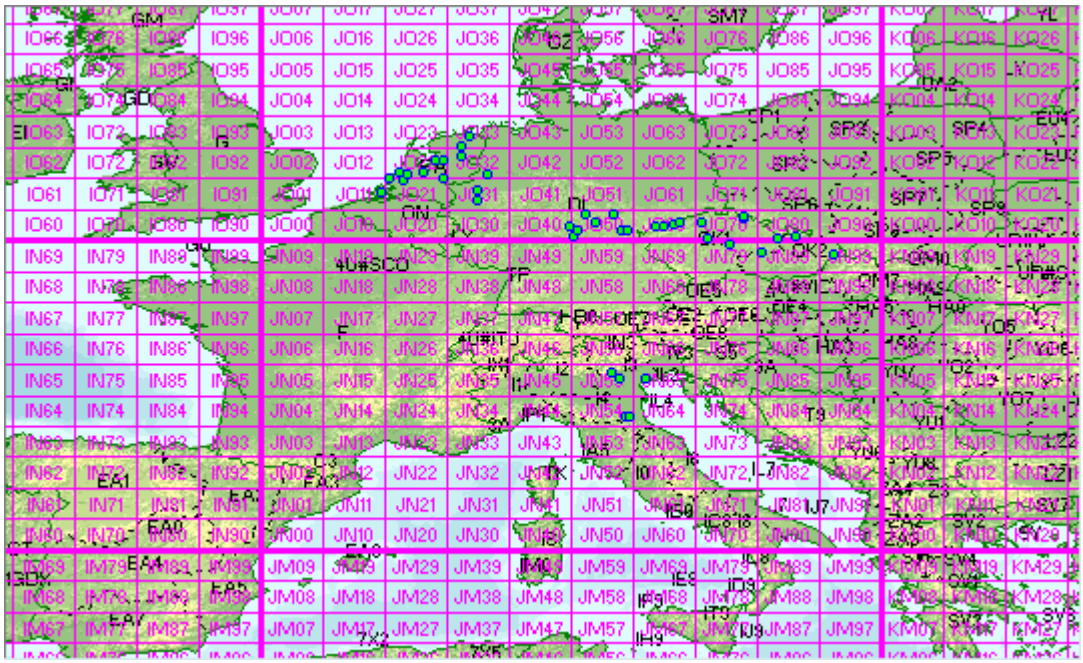
10 GHz

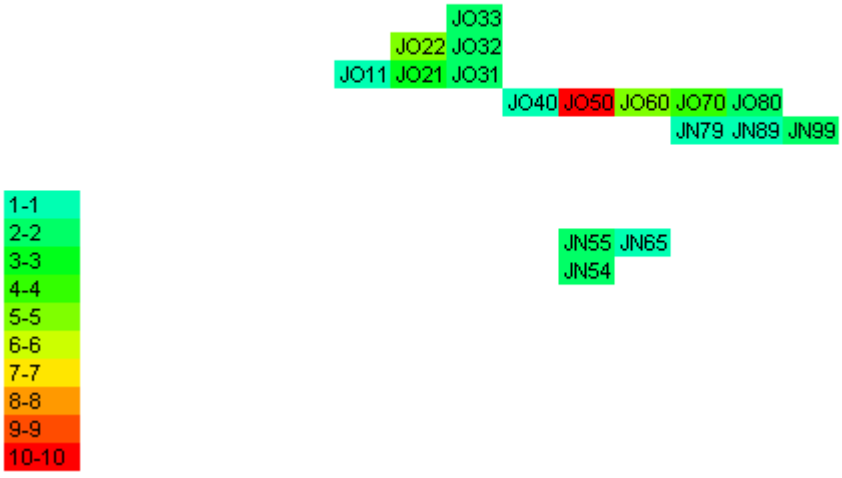




10 GHz - TOP 10 DX					
1	PA6NL	JO21BX	DK0NA	JO50TI	553
2	I4XCC	JN63GV	OE5VRL/5	JN78DK	523
3	S57C	JN76PB	OL4A	JO60RN	519
4	PA6C	JO33FB	SK7MW	JO65MJ	501
5	S51ZO	JN86DR	I4JED/4	JN54PD	485
6	OM3LQ	JN88UT	DK0NA	JO50TI	471
7	PA6NL	JO21BX	G4MAP/P	IO82QL	463
8	OK2TT	JO80OB	DL0GTH	JO50JP	460
9	OM3LQ	JN88UT	DL6NCI	JO50VI	460
10	DL0GTH	JO50JP	OK2TT	JO80OB	460

MM GROUP





24 GHz TOP - 10 DX					
1	OK1KIR	JO60PM	DK0NA	JO50CI	220
2	OK1AIY/P	JO70SQ	DF0MTL	JO60LK	185
3	OK2BPR	JN99FN	OL2R	JN89BO	169
4	OL9W	JN99FN	OL2R	JN89BO	169
5	I4CVC	JN54WH	IW3HTU/3	JN55PS	169
6	OK1UEI	JO70SS	OK1KIR	JO60PM	162
7	PA0EZ	JO22OF	DJ6JJ	JO31LG	161
8	OK1AIY/P	JO70SQ	OK1KIR	JO60PM	160
9	DL0GTH	JO50JP	DG0AU/P	JO60LK	155
10	OK1UEI	JO70SS	OL4A	JO60RN	149

FINDINGS AND SUGGESTIONS

1. MANDATORY USE OF LOGS IN "EDI" FORMAT

IARU R1 VHF MANAGERS HANDBOOK recommends exchange of logs in electronic EDI form. Even though the judging committee found that the majority of the contestants used a computer during the contest, we received most of the logs in paper form. Thus the preparing of quality final results was prevented. The judging committee recommends that in the future the final results of IARU R1 UHF / microwave contest is published on the basis of an automatic electronic log evaluation. The national VHF managers are, in addition to preparing the national results, responsible to provide only electronic EDI format logs:

2. THE USE OF A COMMON AUTOMATIC CONTEST LOG EVALUATION TOOL

A standard tool for the evaluation of electronic contest log should be used in IARU R1 VHF/UHF/SHF contest. This tool should have the option of selection of different criteria for contact deletion while checking QSO's (e.g. wrong received call X1YZ/P or X1YZ/P3 or just X1YZ, error in received serial number, error in received QTH locator ...)

3. CLEAR DEFINITION OF MULTIPLIER FOR FINAL WINER

IARU R1 VHF MANAGERS HANDBOOK in section IIIc specifies the calculation of multiplier, with which the results of a specific station on a frequency band are multiplied to get a final result. It is not entirely clear if the same multiplier is to be used for SO and MO ranking or if it should be different for each category. The final ranking is dependant on the multiplier used. On the basis of a test ad the evaluation of the year 2003 results it was discovered that there are no changes in the MO category. In SO category however the winner is the same regardless of the multiplier used but the following ranking is heavily dependent.
On the basis of Mr. Arie, PA0EZ guidance, the different multiplier was used for each category in 2003.

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