

# Scandinavian Activity Contest 2012



**Ingemar Fogelberg, SM5AJV / SE5E**

**CCF/OHDXF Cruise 2013**

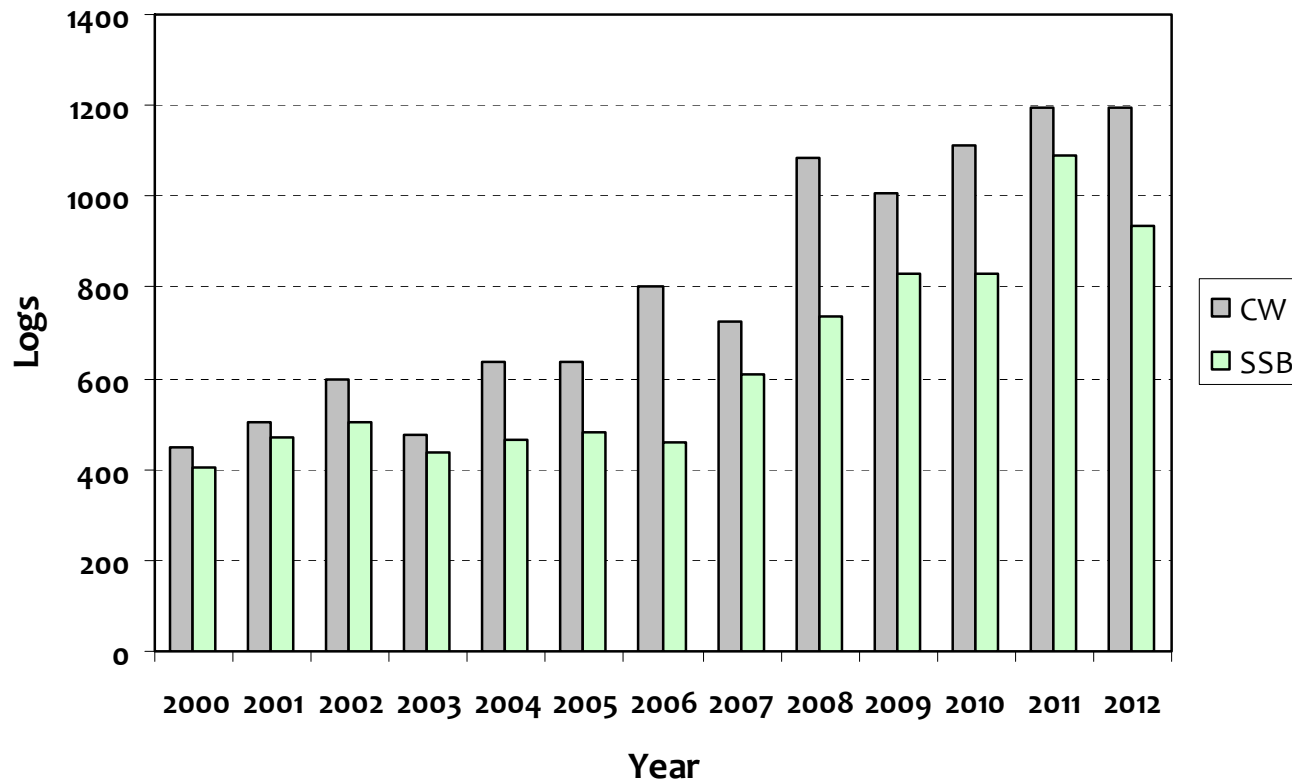
# The Aim

## 1. Aim of the contest

The aims of the contest are to **promote amateur radio activity within Scandinavia as well as to encourage amateur radio communications between Scandinavian and non-Scandinavian amateur radio stations**. Scandinavian stations will try to work as many non-Scandinavian stations as possible and vice versa.

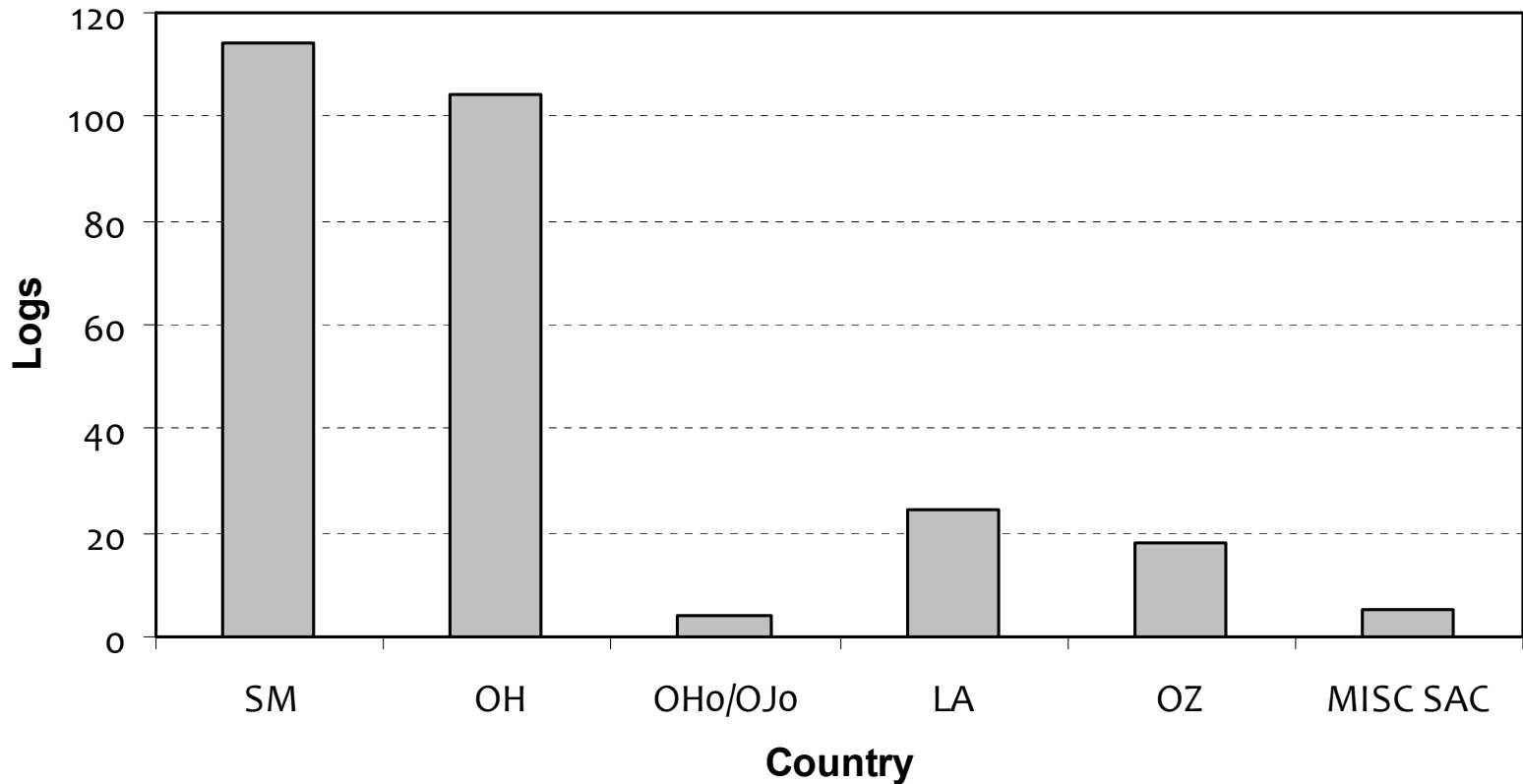
# ACTIVITY

## Scandinavian Activity Contest Submitted Logs 2000-2012



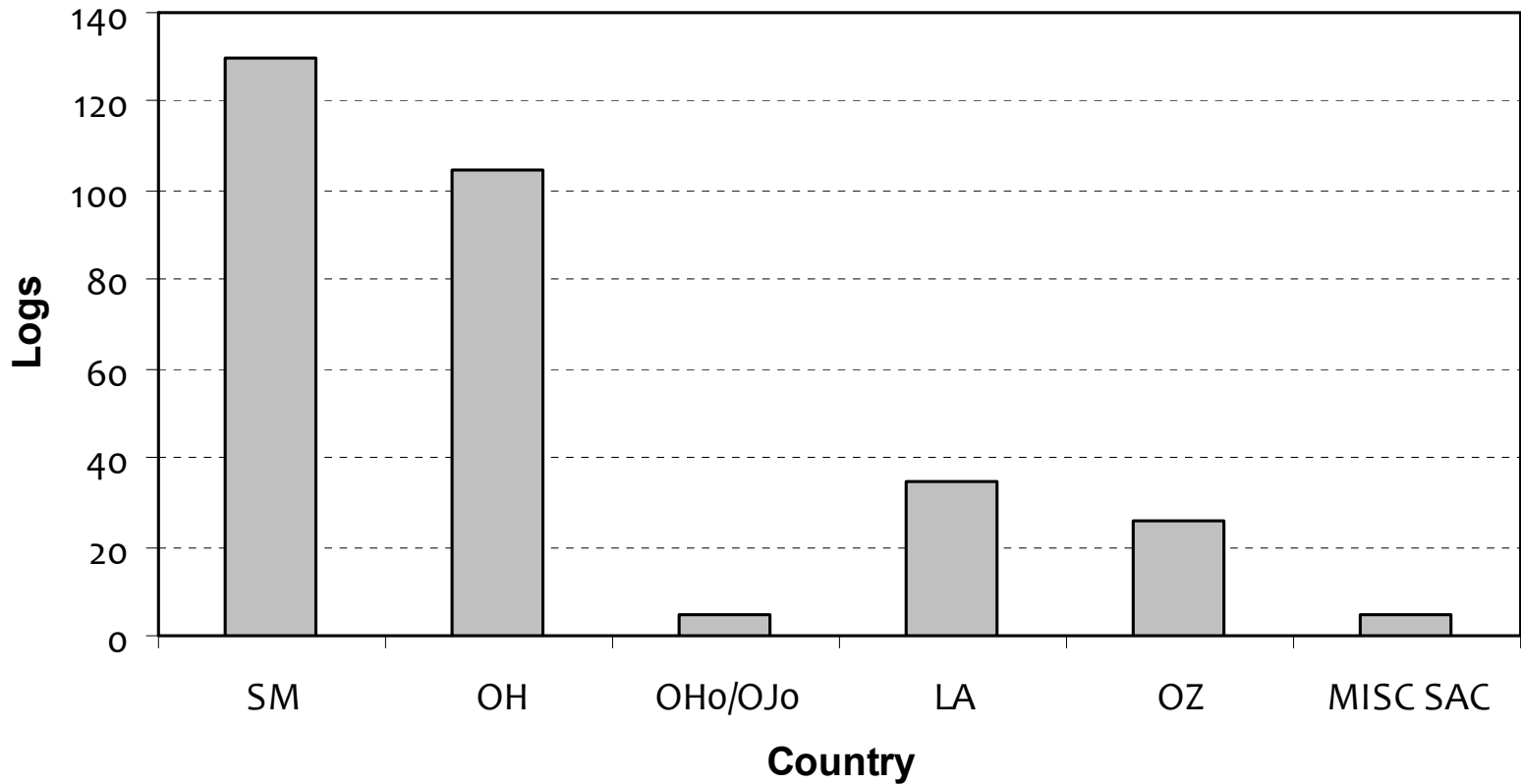
# Activity CW

SAC CW - Average no. of Scandinavian logs 2007-2012

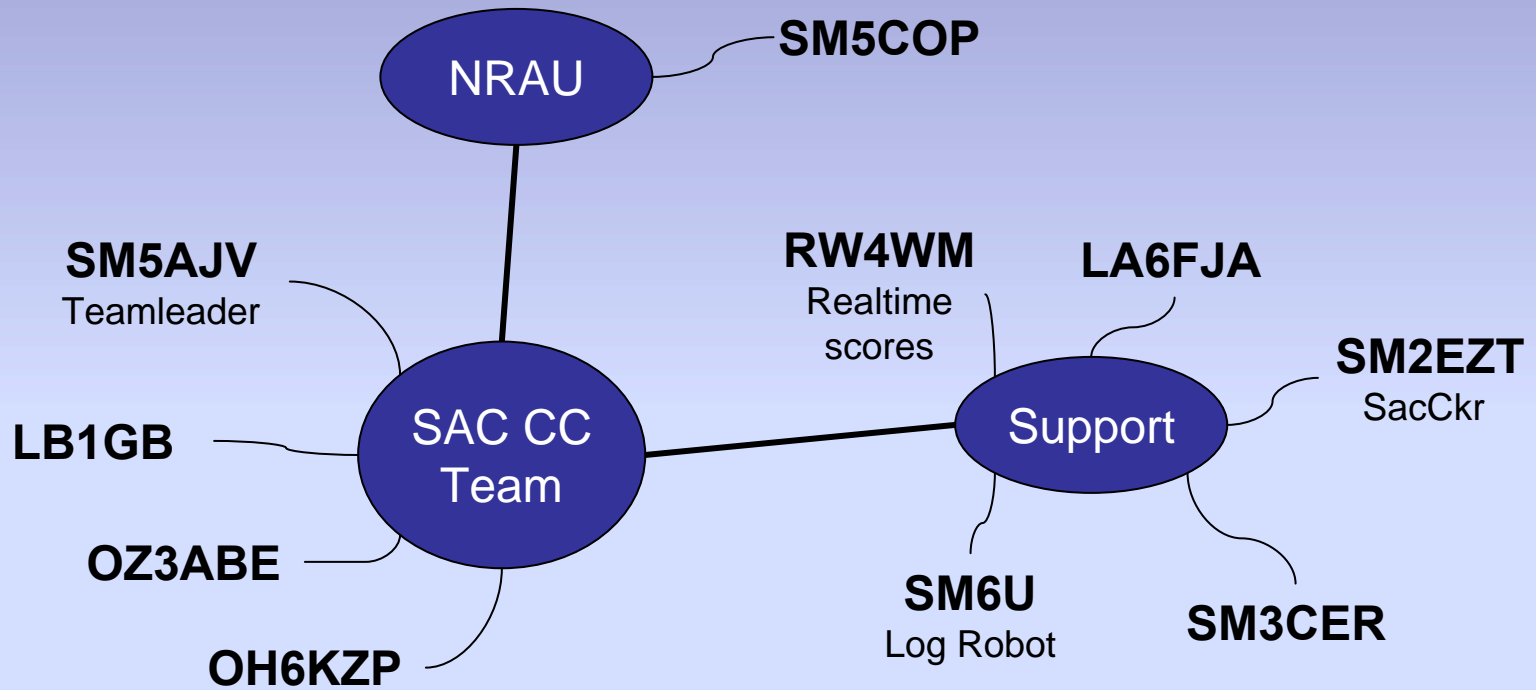


# Activity SSB

SAC SSB - Average no. of Scandinavian logs 2007-2012



# SAC Organization



# Log Checking

- Look for bad logs
- SacCkr by SM2EZT
- Manually Check Bad Calls
- Check Frequency Violations
- Check Assisted Violations

# SacCkr by SM2EZT

SAC Log Checker V1.913, Copyright 2012 SM2EZT / Torvald Lundberg - C:\Documents and Settings\Ingemar\Min...

File Do View Set LogCheckUtilities Help

6382	21244	1446	CT2KFA	59	71	0Z2DAN	59	107	1	0Z2	OK	-948
6383	21303	1447	CT2KFA	59	72	SM6M	59	108	1		Conf	143455
6384	21290	1448	CT2KFA	59	73	SL7ZXW	59	47	1	SM7	Conf	134893
6385	21260	1449	CT2KFA	59	74	LN8W	59	171	1	LA8	Conf	37954
6386	21275	1455	CT2KFA	59	75	0Z8EA	59	18	1		Conf	103398
6387	21275	1456	CT2KFA	59	76	SM6UQL	59	125	1		Conf	144312
6388	21275	1456	CT2KFA	59	77	SE5E	59	147	1		Conf	124627
6389	21275	1457	CT2KFA	59	78	0Z2PBS	59	93	1		OK	-947
6390	21275	1458	CT2KFA	59	80	8S0C	59	46	1		Conf	3660
6391	21275	1459	CT2KFA	59	81	SM6NOC	59	81	1		Conf	143903
6392	21275	1504	CT2KFA	59	82	0Z3MC	59	115	1	0Z3	Conf	98163

SE5E 2012-10-13 PH Log: All Lines Sum Only Bad Only Unique Info

Search Call: CT2KF QRV List Superlog Search in window: SE5E Upper Lower Next

SAC Log Checker V1.911, Copyright 2012 # of logs: 934 Unique: 2 Xcheck: done

124615	14306	1446	SE5E	59	135	IN3QCI	59	2	2		OK	-3122
124616	14306	1446	SE5E	59	136	UE1YX	59	9	3	UE	OK	-1381
124617	14306	1447	SE5E	59	137	IZ0PAU	59	54	2		Conf	29392
124618	14306	1447	SE5E	59	138	I23XEF	59	30	2		Conf	30271
124619	14306	1447	SE5E	59	139	UE1DX	59	26	3		Conf	157866
124620	14306	1448	SE5E	59	140	N5AW	59	19	3	K	Conf	44700
124621	14306	1449	SE5E	59	141	IW2FUT	59	54	2		Conf	28855
124622	14306	1450	SE5E	59	142	E21YDP	59	23	3	HS	OK	-1176
124623	14306	1450	SE5E	59	143	HB9FEX	59	4	2		OK	-2544
124624	14306	1451	SE5E	59	144	HG6V	59	50	2		Conf	23222
124625	14306	1451	SE5E	59	145	AA4U	59	15	3		OK	-3208
124626	14306	1454	SE5E	59	146	RN4ACX	59	4	2		Conf	112296
124627	21275	1456	SE5E	59	147	CT2KF	59	77	0		Busted	6388
124628	21230	1458	SE5E	59	148	CR3L	59	177	3	CT3	Conf	5718
124629	14306	1458	SE5E	59	149	E74WN	59	30	2		Conf	13086
124630	14306	1459	SE5E	59	150	S52MW	59	188	2		Conf	116028
124631	14287	1503	SE5E	59	151	L27H	59	16	2		Conf	43941
124632	14276	1505	SE5E	59	152	R3BM	59	87	2		Conf	107869
124633	14276	1507	SE5E	59	153	L21ND	59	181	2		Conf	42295
124634	14276	1507	SE5E	59	154	N7DR	59	12	3		Conf	44718
124635	14276	1508	SE5E	59	155	LY1FW	59	11	2		OK	-1158
124636	14276	1509	SE5E	59	156	IK2IQD	59	6	2		OK	-1157
124637	21304	1513	SE5E	59	157	UT7CA	59	116	2	UR	Conf	156311
124638	14276	1514	SE5E	59	158	LY1SR	59	31	2		Conf	40467

934 Logs Unique <= in 2 log



# Frequency Violations

## 5. Frequency bands

The **3.5 – 7 – 14 – 21 – 28 MHz** frequency bands may be used according to the IARU HF Band Plan. On 3.5 MHz, Region 1 stations must **not transmit below 3510 kHz on CW or above 3790 kHz on SSB.**

- The main purpose of this rule:  
To be decent to the non-contesters
- QSO's found in the wrong range gives zero points and no further penalty

# Assisted Violation

- Stations that are very quick to work new stations showing up on the band - *may* be cheating with Dx cluster or CW Skimmer
- Hard to detect – No waterproof method yet...
- We asked a few "suspects" and some admitted they had selected the wrong category and was moved to Assisted

# www.sactest.net

SAC – Scandinavian Activity x

www.sactest.net/blog/result/region\_results.php?&mode=CW&region=73



## Scandinavian Activity Contest

more than 50 years of HF contesting with the Scandinavians

Home Log Upload Rules Activity **Results** Claimed NTC Propagation FAQ Feedback SAC 2012

### Results SAC CW 2012 SCANDINAVIA

Select year: [2012](#) [2011](#) [2010](#) [2009](#) [2008](#) [2007](#) [2006](#) [2005](#) [2004](#) [2003](#) [2002](#) [2001](#) [2000](#) [1999](#)

#### Single Operator All Band High Power

RANK	CALL	YEAR	MODE	CLASS	BAND	POWER	OVERLAY	QSO	POINTS	MULT.	SCORE	OPERATORS
1	OH2BH	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2205	5.210	254	1.323.340	OH6KZP
2	OH8X	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2209	5.152	243	1.251.936	OH2UA
3	OH0Z	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2176	5.187	224	1.161.888	OH6EI
4	OH0X	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2086	4.991	219	1.093.029	OH6KN
5	LN8W	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2033	4.801	222	1.065.822	LB1GB
6	OZ1AA	2012	CW	SINGLE-OP	ALL	HIGH	NONE	1882	4.461	216	963.576	OZ1AA
7	SM5INC	2012	CW	SINGLE-OP	ALL	HIGH	NONE	1842	4.359	212	924.108	



# Scandinavian Activity Contest

more than 50 years of HF contesting with the Scandinavians

[Home](#) [Log Upload](#) [Rules](#) [Activity](#) [Results](#) [Claimed](#) [NTC](#) [Propagation](#) [FAQ](#) [Feedback SAC 2012](#)

## Searchable Score Database

Year:  Mode:  Class:

Power:  Band:  Overlay:

Region:  Country:

Call:

Use regexp

Enter your call here

### Results for OH6KZP

RANK	CALL	YEAR	MODE	CLASS	BAND	POWER	OVERLAY	QSO	POINTS	MULT.	SCORE	OPERATORS
1	OH4A	2010	CW	SINGLE-OP	ALL	HIGH	NONE	2354	5.513	257	1.416.841	OH6KZP
2	OH2BH	2012	CW	SINGLE-OP	ALL	HIGH	NONE	2205	5.210	254	1.323.340	OH6KZP
3	OH4A	2010	SSB	SINGLE-OP	ALL	HIGH	NONE	1823	4.348	242	1.052.216	OH6KZP
4	OH4A	2008	CW	SINGLE-OP	ALL	HIGH	NONE	2059	4.674	219	1.023.606	OH6KZP
5	OH5LF	2011	CW	SINGLE-OP	ALL	HIGH	NONE	1811	4.212	241	1.015.092	OH6KZP
6	OH4A	2009	CW	SINGLE-OP	ALL	HIGH	NONE	1909	4.511	221	996.931	OH6KZP
7	OF4A	2007	CW	SINGLE-OP	ALL	HIGH	NONE	1581	3.721	217	807.457	OH6KZP
8	OF4A	2007	SSB	SINGLE-OP	ALL	HIGH	NONE	1456	3.236	229	741.044	OH6KZP
9	OH6KZP	2001	CW	SINGLE-OP	ALL	HIGH	NONE	759	1.697	173	293.581	
10	OH6KZP	2001	SSB	SINGLE-OP	ALL	HIGH	NONE	643	1.539	143	220.077	
11	LX7I	2012	SSB	SINGLE-OP-ASSISTED	ALL	HIGH	NONE	928	928	191	177.248	OH6KZP

Click for Award

Click for UBN

# NTC Trial Philosophy

- National teams compete within SAC
- LA/OZ/TF also have the potential to win
- Spectator-friendly
  - Realtime scoring, audio + video
  - => A possibility to learn; new hams?**
- A new concept in the entire contesting world

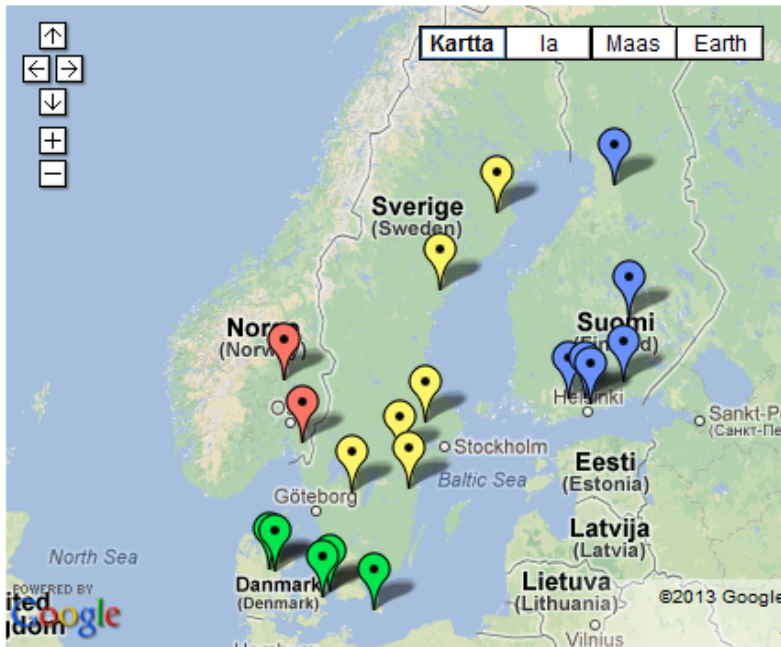
# National Team Contesting

TRIAL

## NTC CW TEAMS

The following teams will take part in SAC National Team Contest Trial 2012 on CW.

The competition will be easy to follow on [cqcontest.ru/teamscore.jsp](http://cqcontest.ru/teamscore.jsp). Some team members will also provide live video and audio.



[View NTC – Team Locations in a larger map](#)

### DENMARK

SOAB HP: OZ1AA op. OZ1AA  
SOAB HP: OZ1IKY op. OZ1IKY  
SOAB LP: OZ4CG op. OZ4CG  
SOAB LP: OU2W op OZ1ETA  
MULTI-ONE: OZ7A

### National Teams of 6 Stations

2 x SOAB HP

2 x SOAB LP

1 x SOAB LP TS

1 x M/S

Different teams on CW and SSB

# National Team Contesting

[Login](#)   [Registration](#)   [News](#)   **Hello to On-line Contest Score Server!**   [SF:101 A5 IC1](#)   [Sat, 15 Sep 2012 14:03:52 UTC](#)  
 © 2010-12 Team RW4W   [Users On-line: 124](#)   [V2.20 supported by: \[RW4W, WEB Post, I1MM, YIn-Test, @14W, @MContest, @eferoc, @ATest, @ARTest, @WriteLog\]](#)   [WWW](#)   [Sat, 15 Sep 2012 14:02:33 UTC](#)

[Details](#)   [View](#)   [Reports / Hour](#)   [Charts](#)   [Statistics](#)   [Cabrillo](#)   [Options](#)   [Help](#)   [City.dat \(21:10\)](#)

Contest: **SAC-CW**   Refresh in: **3 min**   Video Size: **400 x 300**

Category	Call	Score	QSO	160	80	40	20	15	10	MULT	Stat	Qty	Zone	Pfx	Time	TV 1	TV 2
<b>Finland</b>		<b>185770</b>															
SINGLE-OP ALL HIGH CW	OH8X	53,071	307				51	243	13	73	73				00:02	📺	📺
SINGLE-OP ALL HIGH CW	OH2BH	49,061	278							71	71				00:01	📺	📺
MULTI-OP ALL HIGH CW	OH9W	43,520	280							64	64				00:03	📺	📺
SINGLE-OP ALL LOW CW	OH5Z	17,760	179					172	7	40	40				00:01		
SINGLE-OP ALL LOW CW	OH2XX	16,790	168				4	126	29	9	46	46			00:02	📺	📺
SINGLE-OP ALL LOW CW	OH4JT	5,568	81					65	16	29		29			00:18		
<b>Sweden</b>		<b>136465</b>															
SINGLE-OP ALL HIGH CW	SE5E	56,540	269							60	60				00:00	📺	📺
SINGLE-OP ALL HIGH CW	SM5J	27,260	203							58	58				00:02		
SINGLE-OP ALL LOW CW	SI2W	25,650	302					71	109	22	57	57			00:00		
MULTI-OP ALL HIGH CW	SA8C	24,975	230					206	24	45		45			00:03	📺	📺
SINGLE-OP ALL LOW CW	SG5W	15,650	140					84	47	9	30	50	50		00:04		
SINGLE-OP ALL LOW CW	SI9W	6,390	99					93	6	30		30			00:02		
<b>Norway</b>		<b>58974</b>															
SINGLE-OP ALL HIGH CW	LN8W	31,240	246							55	55				00:01		
SINGLE-OP ALL HIGH CW	LN5O	27,734	255					204	48	3	49	49			00:04	📺	📺
<b>Denmark</b>		<b>54041</b>															
SINGLE-OP ALL HIGH CW	OZ1AA	18,915	191						188	3	39	39			00:01		
SINGLE-OP ALL HIGH CW	OZ1KY	15,820	175						165	10	35	35			00:00		
SINGLE-OP ALL LOW CW	OZ2W	12,558	140					85	55	39	39				00:00		
SINGLE-OP ALL LOW CW	OZ4CG	6,748	112					106	6	28		28			00:03		

OZ7A



**Спасибо RW4WM Dmitry  
FOR GREAT SUPPORT!**

# NTC SSB

Live Contest Score Server

cqcontest.ru/teamscore.jsp

[Login](#)
[Registration](#)
[News](#)
[Hello to On-line Contest Score Server!](#)
SFI:125 A:38 K:3
Sun, 14 Oct 2012 12:04:51 GMT

© 2010-12 Team R4W
 Users On-line: 179
v3.0 supported by: TR4W, WEB-Post, N1MM, Win-Test, MixW, 5MContest, Referee, AATest, QARTest, WriteLog
WWW
Sun, 14 Oct 2012 12:03:01 GMT

[Details](#)
[View](#)
[Reports / Hour](#)
[Charts](#)
[Statistics](#)
[Cabrillo](#)
[Options](#)
[Help](#)
Cty.dat (2110)

Contest: **SAC-SSB**
 Refresh in: **3 min**
 Video Size: **300 x 200**

Category	Call	Score	QSO	160	80	40	20	15	10	MULT	Stat	Cty	Zone	Pfx	Time	TV 1	TV 2
<b>Finland</b>		<b>2475430</b>															
SINGLE-OP ALL HIGH SSB	OH2BH	876,288	1572							256	256				00:01	<input checked="" type="radio"/>	<input type="radio"/>
SINGLE-OP ALL HIGH SSB	OH8X	702,634	1382	92	198	695	292	105		226	226				00:00	<input type="radio"/>	<input checked="" type="radio"/>
MULTI-OP ALL HIGH SSB	OH1TX	618,156	1279	181	225	539	300	34		223	223				00:04	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL LOW SSB	OH6RX	172,584	584	64	85	241	170	24		141		141			00:06		
SINGLE-OP ALL LOW SSB	OH3JP	105,768	476	40	41	245	119	31		104	104				00:04		
	OH8UV																
<b>Sweden</b>		<b>1212786</b>															
SINGLE-OP ALL HIGH SSB	SG8X	426,720	934	98	223	395	146	72		210		210			00:09		
SINGLE-OP ALL HIGH SSB	SE5E	386,908	918	98	239	424	106	51		197	197				00:00	<input type="radio"/>	<input type="radio"/>
MULTI-OP ALL HIGH SSB	SK2T	244,416	762	40	140	349	177	56		152		152			00:01		
SINGLE-OP ALL LOW SSB	8S0C	132,500	494	18	29	349	80	18		125		125			00:03		
SINGLE-OP ALL LOW SSB	SL6BE	22,242	166	9	77	59	17	4		66		66			14:18	<input type="radio"/>	<input type="radio"/>
<b>Norway</b>		<b>780307</b>															
SINGLE-OP ALL HIGH SSB	LN8W	499,077	1142							207	207				00:04	<input type="radio"/>	<input type="radio"/>
MULTI-OP ALL HIGH SSB	LA8G	157,766	643	8	42	375	209	9		118		118			00:10		
SINGLE-OP ALL HIGH SSB	LN5O	123,464	477							122	122				00:02	<input type="radio"/>	<input type="radio"/>
<b>Denmark</b>		<b>627408</b>															
MULTI-OP ALL HIGH SSB	OZ7A	269,390	810	183	197	351	50	29		158	158				00:01	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL LOW SSB	OV0V	119,595	482	86	88	253	41	14		119		119			00:15	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL LOW SSB	OZ4VW	117,500	440	77	71	194	66	32		125		125			00:08		
SINGLE-OP ALL HIGH SSB	5Q2T	113,883	456	15	180	150	85	26		119	119				00:00		
SINGLE-OP ALL LOW SSB	OZ5WQ	7,040	81	6	14	26	29	6		40		40			00:13		

**OH2BH**

**OH8X**



# NTC CW

Live Contest Score Server





cqcontest.ru/teamscore.jsp

[Login](#)
[Registration](#)
[News](#)
SFI:102 A:5 K:1 Mon, 17 Sep 2012 22:01:45 GMT

© 2010-12 Team R4W
 Users On-line: 10
v2.30 supported by: TR4W, WEB-Post, N1MM, Win-Test, MixW, 5MContest, Referee, AATest, QARTest, WriteLog
[WWW](#) Mon, 17 Sep 2012 22:01:32 GMT

[Details](#)
[View](#)
[Reports / Hour](#)
[Charts](#)
[Statistics](#)
[Cabrillo](#)
[Options](#)
[Help](#)
City.dat (2110)

Contest: **SAC-CW**
Refresh in 3 min
Video Size 300 x 200

Category	Call	Score	QSO	160	80	40	20	15	10	MULT	Stat	Cty	Zone	Pfx	Time	TV 1	TV 2
<b>Finland</b>																	
		5169996															
SINGLE-OP ALL HIGH CW	OH2BH	1,358,245	2234							257	257				33:09	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL HIGH CW	OH8X	1,310,829	2276		302	595	871	484	24	247	247				33:42	<input type="radio"/>	<input type="radio"/>
MULTI-OP ALL HIGH CW	OH9W	1,226,100	2142							244	244				34:01	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL LOW CW	OH5Z	694,094	1603		190	491	622	275	25	191	191				33:50		
SINGLE-OP ALL LOW CW	OH2XX	371,132	1151		101	313	554	166	17	146	146				33:56	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL LOW CW	OH4JT	209,596	775							122		122			31:32		
<b>Sweden</b>																	
		3940717															
MULTI-OP ALL HIGH CW	SA8C	967,461	1981		260	480	826	386	29	209		209			33:59	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL HIGH CW	SESE	914,130	1888							210	210				32:48	<input type="radio"/>	<input type="radio"/>
SINGLE-OP ALL HIGH CW	SMSJ	741,195	1662		215	593	626	217	11	195	195				33:22		
SINGLE-OP ALL LOW CW	SJ2W	668,871	1571		190	413	634	291	43	189	189				33:32		
SINGLE-OP ALL LOW CW	SG5W	516,860	1351		236	392	508	203	12	172		172			34:01		
SINGLE-OP ALL LOW CW	SI6W	132,200	603		29	189	319	66		100		100			34:27		
<b>Denmark</b>																	
		1976574															
SINGLE-OP ALL HIGH CW	OZ1AA	991,413	1903		356	593	565	371	18	219		219			33:59		
SINGLE-OP ALL HIGH CW	OZ1KY	677,237	1469		215	349	538	341	26	193	193				33:22		
SINGLE-OP ALL LOW CW	OZ4CG	207,252	905		152	440	294	19		108		108			34:00		
SINGLE-OP ALL LOW CW	OU2W	100,672	420		42	126	130	122		104	104				28:38		
	OZ7A																
<b>Norway</b>																	
		1947455															
SINGLE-OP ALL HIGH CW	LN8W	1,084,160	2049							224	224				33:14		
SINGLE-OP ALL HIGH CW	LN50	863,295	1830		214	519	778	313	6	201	201				33:57	<input type="radio"/>	<input type="radio"/>

TV 1

TV 2

# Survey

## Survey Responses

Scand. : 40%  
EU: 43%  
NA: 4%  
AS: 7%  
SA: 2%  
OC: 3,%  
AF: none



## Age

Youngest: 21 years  
Oldest: 89 years  
Average : 54 years

## Mode

Only CW: 43%  
Only SSB: 25%  
CW+SSB: 32%

207 persons participated in the SAC 2012 Survey

# Survey

<b>How will you rank your overall satisfaction with SAC 2012 ?</b>	3.9
<b>Did you follow the NTC competition on cqcontest.ru ?</b>	Yes: 27% No: 73%
<b>If you followed the NTC competition, how would you grade your experience ?</b>	3.8
<b>What do you think about the SAC website ?</b>	4.2
<b>Did you find the information on the SAC website sufficient ?</b>	4.2
<b>Were you satisfied with the log submitting process ?</b>	4.5
<b>Was it easy to use our online log robot ?</b>	4.5

207 persons participated in the SAC 2012 Survey

# What do you see as the two-three most essential things to develop in SAC?

To attract **more non-scandinavians** to join the contest

**More participation from Scandinavian stations especially OZ and LA** Even more efficient (although a challenge) change of categories or disqualification for participants violating Assisted and Power classes.

You have to **maximise the Number of Scandinavian Stations** taking part and they should put in as many hours they can. It is a good Contest and one I always enjoy Thank you for Organising it

You may consider introducing **low bands (160-80-40) and high bands categories**. This way more close to Scandinavia living amateurs would feel competitive on low bands and DXes on High bands.

The contest is very good but would be better if **everyone works everyone** as Russian DX for example. For the Scandinavian stations were very popular during the contest QSO with them could be worth more points (for example.: 10 points QSO SAC with non SAC)

Make an **own class for SOAB HP Tribander-Single** element. Many small HP stations that can't compete with OH8X and OH2BH. I'm one of them. I don't think I will participate in next year SAC if not a HP Tribander-Single element class is present.

**Assisted category for Scandinavian singles**, it helps casual operators have some fun with cluster and increasing their country total.

# Future

- Continue to increase activity
- Continue to develop the SAC Team
- New categories?
- More "media friendly" ?
- Improved service?
- Sponsored Trophies?
- ...

# SCANDINAVIAN CUP

NO	COUNTRY	CW LOGS	CW SCORE	SSB LOGS	SSB SCORE	TOTAL LOGS	TOTAL SCORE
1	OH - Finland	116	24.918.999	146	11.488.002	262	36.407.001
2	SM - Sweden	112	24.016.744	138	6.937.945	250	30.954.689
3	LA - Norway	25	7.708.706	37	1.733.485	62	9.442.191
4	OZ - Denmark	19	3.421.400	29	1.871.853	48	5.293.253
5	OH0 - Aland Islands	4	2.810.397	5	1.804.402	9	4.614.799
6	TF - Iceland	4	1.687.032	2	334.800	6	2.021.832
7	OX - Greenland	1	526.526	1	106.477	2	633.003
8	OJ0 - Market Reef	0	0	1	530.883	1	530.883
9	JW - Svalbard	1	201.940	2	40.938	3	242.878
10	OY - Faroe Islands	1	9.376	0	0	1	9.376

# Questions Feedback etc.

*NRAU's SAC Contest Committee:*

Ingemar, SM5AJV (Team leader)

Bjørn, LB1GB

Kim, OH6KZP

Peter, OZ3ABE

**[support@sactest.net](mailto:support@sactest.net)**

# SCANDINAVIAN WINNERS

- **OG5A - Multi-Multi CW**  
OH5GEV, OH5TS, OH5UX, OH5XX
- **SG5W - Single Op AB LP TS CW**  
SM5IMO
- **OH0V - Multi-Multi SSB**  
OH2BYS, OH3BHL, OH4KA, OH6LI, OH6RX, OH6XA
- **OH1TX - Multi-Single SSB**  
OH1TX, OH1JD
- **8S0C - Single Op AB LP TS SSB**  
SM0MPV



# NATIONAL WINNERS

- **OH1MA – Single Op 15M HP CW**
- **OH1RX – Single Op AB LP TS CW**
- **OH0Z - Single Op AB HP CW**  
OH6EI
- **OH5Z – Multi-Multi AB HP SSB**  
OH5KS, OH5LF, OH5NQ, OH5TS
- **SE0X - Single Op AB HP SSB**  
SM0MDG

# See you in SAC 2013

**CW:** 2013 21-22 Sep

**SSB:** 2013 12-13 Oct

