

# 2018

## SCANDINAVIAN ACTIVITY CONTEST

### THE POLAR BATTLE



**RESULTS AND STATISTICS  
STORIES FROM PARTICIPANTS**



After SAC wind conditions have been quite hard in OHØ.

In the picture is full size 40m beam element, which fell some 25 meters from tower.

Upside on this accident is that miraculously all antennas below survived with minor injuries. Tomi OH6EI

## SCANDINAVIAN ACTIVITY CONTEST



SAC is sponsored by NRAU, Nordic Radio Amateur Union

SAC Committee 2018: SM5AJV - OH6EI - OZ2I - LB8DC

Frontpage picture: Scandinavia from ISS spacecenter 2017 from Illustreret Videnskab www. <http://illvid.dk/>

Booklet Layout and Design 2018 by OZ2I Henning Andresen

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# Introduction

The 2018 years SAC CW and SSB is now in the books and in the booklet you are reading right now. We had an overall increase in activity of almost 20 percent compared to 2017. And this despite low sun activity. Most of the increase is from stations outside Scandinavia. Hats off for the "outsiders" that makes SAC live and kicking!

The log checking this year was somewhat complicated by our new rule addition. We wanted the participants to use figure zero for received serial number in the case the station didn't send a number. Before this rule was enforced, we saw different ways of handling non-contest QSO's. Inventing a serial number and just pretend that the juicy new multiplier was a regular contest-QSO or some more strict operators actually removed the QSO from the log.



The frequency band rules is another area, where several Scandinavians didn't realize that they actually operated outside the contest segment. All QSO's found outside the contest segments are removed from the score calculations. So please read the rules and have fun!

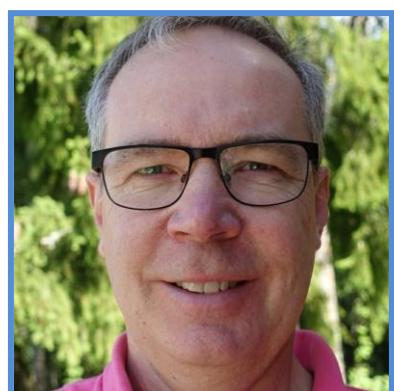
The SAC Contest Committee is finally having a representative from Norway again. A warm welcome to our new member Morten LB8DC. Morten is a well-known competitor and Dx-peditioner and he jumped in right from the start and took the lion share of the SSB log checking.

I would like to thank all contributors, and especially Dietmar DL3DXX & Co who did the write-up of the expedition to Market Reef, a place that can be very unfriendly weather wise during the autumn. Vielen Dank for selecting the SAC CW weekend for your operation!

SAC Contest Committee 2018: SM5AJV - OH6EI - OZ2I - LB8DC

Enjoy the booklet and see you in SAC 2019,  
CW: 21 -22 September and SSB: 12 -13 October.

73  
**Ingo SM5AJV**  
SAC CC Teamleader





## Nordic Radio Amateur Union

All the Nordic countries have our own national Amateur Radio organization. More of the countries have similar languages making both general understanding and cultural understanding across the borders much easier. Additionally, we also have common interests and goals regarding Amateur Radio as such.

These are just some of the reasons why the organizations joined our forces in establishing a Nordic amateur radio community named the "Nordic Radio Amateur Union" (**NRAU**).

NRAU is a Nordic organization composed of individual national organization. NRAU's aim is to coordinate radio amateur activities, and to work towards a common solution for the Nordic countries.

NRAU holds a meeting ahead of every IARU conference, where all proposed agenda items are duly discussed in the attempt to reach a mutual Nordic understanding and agreement, when possible.

**NRAU is the sponsor of the Scandinavian Activity Contest.**

### SAC are also supported by these programs:

- |                            |   |
|----------------------------|---|
| ○ AATest by RZ4AG          | <a href="http://www.aalog.com/">http://www.aalog.com/</a>                                     |
| ○ DXLog.net by 9A5K        | <a href="http://www.dxlog.net/">http://www.dxlog.net/</a>                                     |
| ○ GEN LOG by W3KM          | <a href="http://www.qsl.net/w3km/">http://www.qsl.net/w3km/</a>                               |
| ○ jLog by LA3HM            | <a href="http://ilog.org/">http://ilog.org/</a>   |
| ○ Log4U by SM3CER/SM5NBE   | <a href="http://www.sk3bg.se/contest/log4u.htm">http://www.sk3bg.se/contest/log4u.htm</a>     |
| ○ Log4Win by UR5FCM        | <a href="http://log4win.ucoz.net/">http://log4win.ucoz.net/</a>                               |
| ○ Lux-Log by LX1NO         | <a href="http://luxlog.lx1no.info/">http://luxlog.lx1no.info/</a>                             |
| ○ N1MM Logger              | <a href="http://www.n1mm.com/">http://www.n1mm.com/</a>                                       |
| ○ NA by K8CC               | <a href="http://www.datomonline.com/">http://www.datomonline.com/</a>                         |
| ○ OH2GI Ham System         | <a href="http://www.kolumbus.fi/jukka.kallio/">http://www.kolumbus.fi/jukka.kallio/</a>       |
| ○ SAC by LAØFX             | <a href="http://www.qsl.net/la0fx/">http://www.qsl.net/la0fx/</a>                             |
| ○ SD by EI5DI              | <a href="http://www.ei5di.com/">http://www.ei5di.com/</a>                                     |
| ○ TR by N6TR               | <a href="http://www.trlog.com/">http://www.trlog.com/</a>                                     |
| ○ UcxLog by DL7UCX         | <a href="http://www.ucxlog.org/">http://www.ucxlog.org/</a>                                   |
| ○ Win-Test by F5MZN        | <a href="http://www.win-test.com/">http://www.win-test.com/</a>                               |
| ○ Wincontest by I8VKB      | <a href="http://digilander.libero.it/wincontest/">http://digilander.libero.it/wincontest/</a> |
| ○ WriteLog by W5XD         | <a href="http://www.writelog.com/">http://www.writelog.com/</a>                               |
| ○ RUMPed for Mac by DL2RUM | <a href="http://dl2rum.de/rumsoft/RUMPed.html">http://dl2rum.de/rumsoft/RUMPed.html</a>       |



## OJ0DX in SAC CW 2018

Our first SAC participation as OJ0DX was in 2015 with operators DL5LYM, SP5XVY, US5wdx and me. I actually wanted to celebrate my 60th birthday in August 2015 on Market Reef but had to postpone so to go for SAC CW with friends was a good substitute.



Dan DL5SE, Dietmar DL3DXX, Rene DL2JRM and our Skipper, Anders Michanek

MB Vito bus, Tom DL5LYM and Dan DL5SE. All 3 are top notch CW contesters and have joined numerous of DXped.

We found an alternative transport way by using a boat from the Grisslehamn in Sweden. It would save us time and money. We would not have to go to the Aalands first but could stay in SM5AQDs summer house that Hawk had offered us to use, just about one hour drive from the harbor.

Year 2018 was no exception concerning travel delay by weather. Market reef has no harbor. The landing must happen at the rocks so high waves may damage the boat and cause accidents.

Weather forecast predicted a small "wind gap" for Friday afternoon, so we convinced the skipper to make a try on our own risk. Landing was successful. The skipper was Anders Michanek, who was a Speedway champion in the 70th ☺

Arriving on Market at Friday we had enough time to install antennas and make stations ready for the SAC test in time.



Market Reef like everybody knows it

Market Reef is a magic place as one of the smallest DXCC in Europe. However it offers enough space for antennas. Biggest problem is traveling from and to the island by boat, usually from Eckero/Aaland islands. In 2015 high wind and waves delayed our arrival. We missed first 5 hours of the contest and finished antenna setup late evening. We ended up in position 3 in M/M CAT behind OH9W and OH0Z so we had the feeling that more was possible when we had started in time.

For 2018 we planned a new try. This time my co-travelers were Rene DL2JRM who drove the



Arrival at Market Reef - seen from our boat

Again we had decided to operate Multi-Multi. Multi-Single would have been boring with 4 operators. Unfortunately the ideal Multi-2 CAT is not available in the SAC - why ?

Technically the lighthouse is not provided for a Multi-Multi operation. Solar panels charges a set of batteries from where an inverter generates the 230V AC.

To fill the gap during night time a small diesel generator is available to recharge batteries. The power system is fully automated. Generator starts and stops automatically on demand.

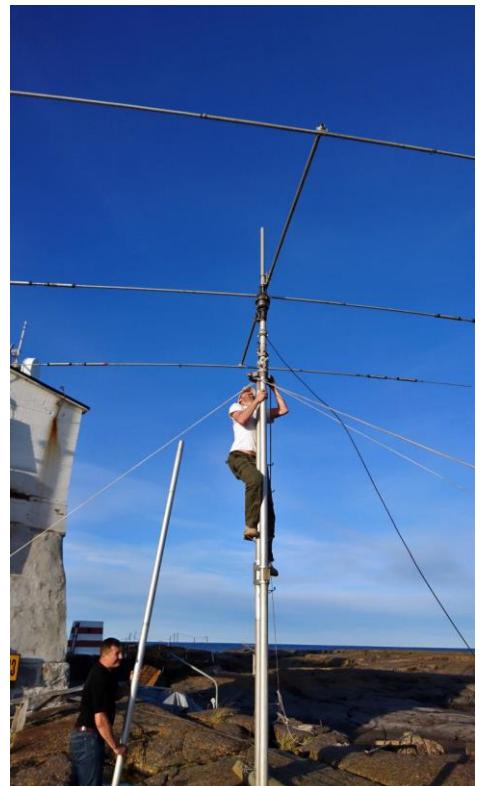
You do not have much to care. All electrical parameters are measured and sent by internet to supervisors in Finland. Critical is the limited power the inverter is able to transfer.

During generator cycle you cannot take more power the generator is able to provide otherwise it stops loading. That's why we were limited to an average input of 2 KVA on demand.

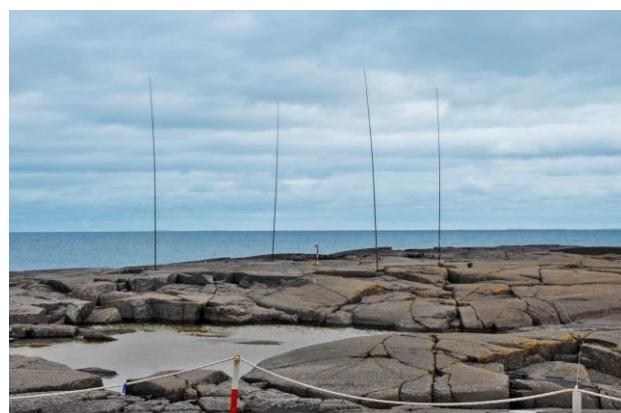
Having 3 radios with small solid-state amplifiers we calculated that every amplifier must not exceed 400..500 watts output with a rx/tx cycle of about 50/50 to stay within the limits.

The transportation by boat also limited our antenna equipment. A small beam is permanent mounted on the roof of the adjoining building next to the lighthouse. We brought another 3 element 3-band beam and tall mast to be able to operate two high bands in parallel. We estimated that the 3rd station would be able to operate 40m the complete time of the contest day and night. 40m would be our main band so we erected a 4-square vertical which worked perfect close to salt water. For 80m Dan had constructed a quarter waver vertical using an 18m fiber glass pole with some dozens of radials.

With such kind of equipment it is hard to compete against the Scandinavian top guns. Our secret weapon was our rare call and extra DXCC so we expected to compensate the missing dB this way. It worked partly in terms of contacts but not for multipliers.



Building up the 10-15-20 meter Beam  
DL5SE climbing and DL2JRM supporting



Four-square array for the 40-meter band

Finally we lost too many multipliers on the high bands where we simply could not hear some of the countries with our limited setup, so we ended up at position 3 again - this time behind SK3W and OG60F. It is no shame to get beaten by such world class stations. Finally we made the highest number of contacts - 2648.

It was a very pleasurable but short stay at the lighthouse because Monday we dismantled the station and since the weather was just OK for the boat we left in the evening to travel home in JRM's bus. The 1400 KM trip way back took about 16 hours during the night crossing Stockholm, Malmö, Copenhagen, Gedser, Rostock, Berlin

to end up at DFOSAX - my club station and our material depot near Dresden - where we arrived around Tuesday noon. Here my trip ended while the other 3 continued in their own cars for another hour to get home.

Market reef is, and has always been a magic place for me. It's not only the radio activity but it is also the most eastern sauna in Finland and the cooking lady community of the lighthouse society people.

Together all that makes our stay an unforgettable event. So I probably will be back again.

73 Dietmar - DL3DXX

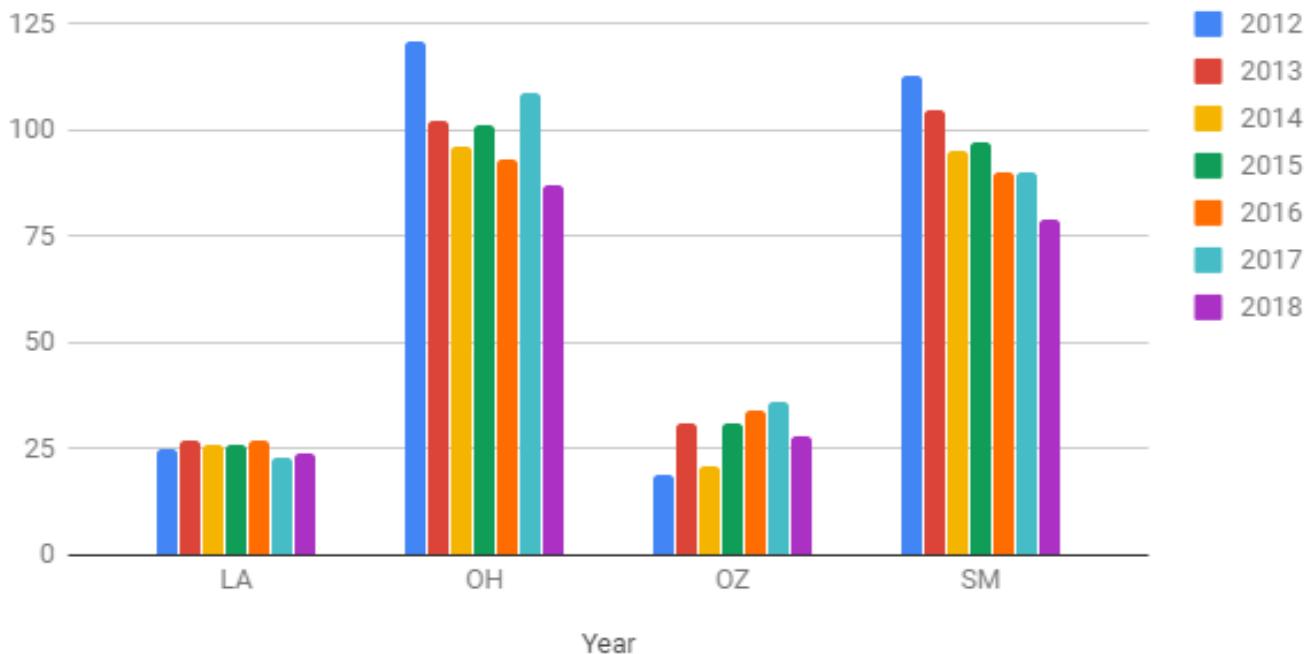


OJØDX Operators during the  
Scandinavian Activity Contest 2019  
DL5SE in front, DL2JRM next and  
DL3DXX in the back

# SAC Scandinavian Cup 2018

NO	COUNTRY	CW LOGS	CW SCORE	SSB LOGS	SSB SCORE	TOTAL LOGS	TOTAL SCORE
1	OH - Finland	85	14.984.684	98	7.373.453	183	22.358.137
2	SM - Sweden	78	11.493.689	101	3.652.845	179	15.146.534
3	OZ - Denmark	27	3.807.885	26	1.305.764	53	5.113.649
4	LA - Norway	24	3.850.073	40	758.019	64	4.608.092
5	OH0 - Aland Islands	3	1.708.093	5	1.339.444	8	3.047.537
6	OJ0 - Market Reef	1	1.165.944	0	0	1	1.165.944
7	TF - Iceland	0	0	4	186.408	4	186.408
8	OY - Faroe Islands	1	44.280	1	65.156	2	109.436
9	JW - Svalbard	0	0	1	16.341	1	16.341

## SAC submitted Scandinavian logs 2012-2018



Feel free to visit our website with many more information's and including the Score-Database where you can find the actual as well as the historical results of the Contest. Goto <http://www.sactest.net>

# Plaque Winners 2018

## SAC Winners 2018 – SCANDINAVIA

### CW

SINGLE-OP HIGH ALL – OH2PM (op. at OH0R)  
 SINGLE-OP LOW ALL – LA7MFA (op. at LA2AB)  
 SINGLE-OP QRP ALL – OH6LI (op. at OH6LI)  
 SINGLE-OP-ASSISTED HIGH ALL – OH1JD (op. at OG1D)  
 SINGLE-OP-ASSISTED LOW ALL – SCON (op. at SCON)  
 SINGLE-OP-ASSISTED QRP ALL – SM0LPO (op. at SM0LPO)  
 SINGLE-OP-ASSISTED HIGH ALL TB-WIRES – LB8DC (op. at LB8DC)  
 SINGLE-OP LOW ALL TB-WIRES – OZ1BII (op. at 5Q6EE)  
 SINGLE-OP HIGH ALL WIRE-ONLY – LA0CX (op. at LA0CX)  
 SINGLE-OP LOW ALL WIRE-ONLY – SM5EOS (op. at SF5O)  
 SINGLE-OP-ASSISTED LOW ALL WIRE-ONLY – SM4DQE (op. at SE4E)  
 MULTI-ONE HIGH ALL – OH1JT OH2XX OH6EI (op. at OH0Z)  
 MULTI-MULTI HIGH ALL – SM3SGP SM5AJV SM5CCT SM5PHU (op. at SK3W)

### SSB

SINGLE-OP HIGH ALL – OH6UM (op. at OH8X)  
 SINGLE-OP LOW ALL – OZ7IS (op. at OY7O)  
 SINGLE-OP QRP ALL – SM3LDP (op. at 8S3DX)  
 SINGLE-OP-ASSISTED HIGH ALL – OH6NIO (op. at OG6N)  
 SINGLE-OP-ASSISTED LOW ALL – OH5Y (op. at OH5Y)  
 SINGLE-OP-ASSISTED QRP ALL – OH3KRH (op. at OG3X)  
 SINGLE-OP-ASSISTED HIGH ALL TB-WIRES – SM0MPV (op. at 8S0C)  
 SINGLE-OP-ASSISTED LOW ALL TB-WIRES – OH5Y (op. at OH5Y)  
 SINGLE-OP LOW ALL ROOKIE – OH6UX (op. at OH6UX)  
 SINGLE-OP HIGH ALL WIRE-ONLY – OH6CS (op. at OH6AC)  
 SINGLE-OP LOW ALL WIRE-ONLY – OZ7IS (op. at OY7O)  
 MULTI-ONE HIGH ALL – OH2BH OH2GEK OH2UA OH8NC OH2MM (op. at OH0X)  
 MULTI-MULTI HIGH ALL – OH1WZ OH5CZ OH5KS OH5LF OH5TS (op. at OH5Z)

## SAC Winners 2018 – AFRICA

### CW

SINGLE-OP LOW ALL – V51YJ (op. at V51YJ)  
 SINGLE-OP-ASSISTED LOW ALL – ZS6C (op. at ZS6C)

### SSB

SINGLE-OP HIGH ALL – EA8DED (op. at EA8DED)  
 SINGLE-OP LOW ALL – 5Z4BV (op. at 5Z4BV)  
 SINGLE-OP-ASSISTED HIGH ALL – 6W1SU (op. at 6W1SU)

## SAC Winners 2018 – ASIA

### CW

SINGLE-OP HIGH ALL – R8WF (op. at R8WF)  
 SINGLE-OP LOW ALL – RA9CCK (op. at RA9CCK)  
 SINGLE-OP QRP ALL – UN7EG (op. at UN7EG)  
 SINGLE-OP-ASSISTED HIGH ALL – R8TT (op. at R8TT)  
 SINGLE-OP-ASSISTED LOW ALL – 5B/RN3QO (op. at 5B/RN3QO)  
 SINGLE-OP-ASSISTED HIGH LOW-BAND – UN2E (op. at UN2E)  
 MULTI-ONE HIGH ALL – RA9LT, KOSTYA, SVETA (op. at RM8L)

## SSB

SINGLE-OP HIGH ALL – RV9CBW (op. at RF9C)  
SINGLE-OP LOW ALL – UT5UT (op. at 5B/UT5UT)  
SINGLE-OP QRP ALL – UA0SBQ/P (op. at UA0SBQ/P)  
SINGLE-OP-ASSISTED HIGH ALL – UA9BA (op. at UA9BA)  
SINGLE-OP-ASSISTED LOW ALL – UA9CUA (op. at UA9CUA)  
SINGLE-OP-ASSISTED HIGH LOW-BAND – JA6GMC (op. at JA6GMC)  
MULTI-ONE HIGH ALL – JK2VOC (op. at JK2VOC)

## SAC Winners 2018 – EUROPE

## CW

SINGLE-OP HIGH ALL – LZ1GU (op. at LZ1GU)  
SINGLE-OP LOW ALL – RA3Y (op. at RA3Y)  
SINGLE-OP QRP ALL – UT8AS (op. at UT8AS)  
SINGLE-OP-ASSISTED HIGH ALL – UT4U (op. at UT4U)  
SINGLE-OP-ASSISTED LOW ALL – UA6CC (op. at UA6CC)  
SINGLE-OP-ASSISTED QRP ALL – RT4W (op. at RT4W)  
SINGLE-OP-ASSISTED HIGH LOW-BAND – LY3BB (op. at LY3BB)  
MULTI-ONE HIGH ALL – RU4W, SM6LRR (op. at RM5A)

## SSB

SINGLE-OP HIGH ALL – I2PJA (op. at I2PJA)  
SINGLE-OP LOW ALL – EC7WA (op. at EC7WA)  
SINGLE-OP QRP ALL – HA6IAM (op. at HG6C)  
SINGLE-OP-ASSISTED HIGH ALL – I2WIJ (op. at I2WIJ)  
SINGLE-OP-ASSISTED LOW ALL – 4O9TTT (op. at 4O9TTT)  
SINGLE-OP-ASSISTED QRP ALL – RT4W (op. at RT4W)  
SINGLE-OP-ASSISTED HIGH LOW-BAND – DF6JC (op. at DF6JC)  
MULTI-ONE HIGH ALL – IT9SSI IT9UFP IT9YVO (op. at IT9YVO)



## SAC Winners 2018 – NORTH AMERICA

## CW

SINGLE-OP HIGH ALL – K8MFO (op. at K8MFO)  
SINGLE-OP LOW ALL – VE3DZ (op. at VE3DZ)  
SINGLE-OP QRP ALL – K3TW (op. at K3TW)  
SINGLE-OP-ASSISTED HIGH ALL – N2KW (op. at N2KW)  
SINGLE-OP-ASSISTED LOW ALL – N3UA (op. at N3UA)  
SINGLE-OP-ASSISTED QRP ALL – K8ZT (op. at K8ZT)  
SINGLE-OP-ASSISTED HIGH LOW-BAND – W3AKD (op. at W3AKD)  
MULTI-ONE HIGH ALL – N1SOH W1FM (op. at N1SOH)

## SSB

SINGLE-OP HIGH ALL – WB9Z (op. at WB9Z)  
SINGLE-OP LOW ALL – VE3DZ (op. at VE3DZ)  
SINGLE-OP QRP ALL – K3TW (op. at K3TW)  
SINGLE-OP-ASSISTED HIGH ALL – VO1MP (op. at VO1MP)  
SINGLE-OP-ASSISTED LOW ALL – VE3TM (op. at VE3TM)  
SINGLE-OP-ASSISTED QRP ALL – K8ZT (op. at K8ZT)  
MULTI-ONE HIGH ALL – N1SOH W1FM (op. at N1SOH)

## SAC Winners 2018 – OCEANIA

CW

SINGLE-OP HIGH ALL – ZL2AGY (op. at ZL2AGY)  
 SINGLE-OP LOW ALL – YC1ME (op. at YC1ME)  
 SINGLE-OP-ASSISTED HIGH ALL – ZL3IO (op. at ZM4T)  
 SINGLE-OP-ASSISTED LOW ALL – YB1TIA (op. at YB1TIA)  
 SINGLE-OP-ASSISTED HIGH LOW-BAND – ZL3PAH (op. at ZL3PAH)

SSB

SINGLE-OP HIGH ALL – VK2CZ (op. at VK2CZ)  
 SINGLE-OP LOW ALL – 9W6MUL (op. at 9W6MUL)  
 SINGLE-OP-ASSISTED HIGH ALL – YB3DY (op. at YB3DY)  
 SINGLE-OP-ASSISTED LOW ALL – YF3DFB (op. at YF3DFB)

## SAC Winners 2018 – SOUTH AMERICA

CW

SINGLE-OP LOW ALL – PR7AX (op. at PR7AX)  
 SINGLE-OP-ASSISTED HIGH ALL – PY4HO (op. at PY4HO)  
 SINGLE-OP-ASSISTED LOW ALL – PY1AX (op. at PY1AX)  
 SINGLE-OP-ASSISTED HIGH LOW-BAND – YV4ABR (op. at YV4ABR)

SSB

SINGLE-OP HIGH ALL – PY9GC (op. at PY9GC)  
 SINGLE-OP LOW ALL – PY2XC (op. at PY2XC)  
 SINGLE-OP-ASSISTED HIGH ALL – PS2T (op. at PS2T)  
 SINGLE-OP-ASSISTED LOW ALL – PY5FO (op. at PY5FO)  
 MULTI-ONE HIGH ALL – CE2RTF CE2SQE (op. at CE2LS)



# Sponsored Plaques 2018

## For non-Scandinavian single operators

WORKED MOST LA (SPONSOR: MORTEN KVERNMOEN, LB8DC) – LX7I  
WORKED MOST OH (SPONSOR: TOMI YLINEN OH6EI) – R8WF  
WORKED MOST OZ (SPONSOR: THOMAS ANDERSEN, OZ1AA) – G3SWC  
WORKED MOST SM (SPONSOR: KURT BRÄNNÄS, SE2T) – YO3FFF  
WORKED MOST TF (SPONSOR: THORVALDUR STEFANSSON, TF4M) – M0MCV  
BEST YL/XYL (SPONSOR: VEIJO KONTAS, OH6KN) – IN3FHE  
BEST NA (SPONSOR: HANS JOHANSSON, SM0IMJ) – N2KW  
BEST BALTIK (SPONSOR: JYRKI NIEMINEN, OH6CS) – YL3CW  
BEST UK + REPUBLIC OF IRELAND (SPONSOR: OLOF LUNDBERG, GOCKV) – G3SWC  
BEST EUROPEAN RUSSIA (SPONSOR: ANTON TETERIN, OG2K) – UA4S  
BEST ASIATIC RUSSIA (SPONSOR: KURT BRÄNNÄS, SE2T) – R8WF  
BEST BELGIUM + THE NETHERLANDS (SPONSOR: ZABA HUBACH, OH1ZAA) – PA3EVY  
MOST MULTIPLIERS (SPONSOR: ARTO LIIMATTA OH2KW) – I2WIJ  
CW: BEST BY (SPONSOR: MATS ERICSON, SM4EPR) – BG8NKK  
CW: BEST JA (SPONSOR: JARI PERKIÖMÄKI, OH6BG) – JA6GCE  
CW: BEST ACCURACY (AT LEAST 200 QSOS) (SPONSOR: HENNING ANDRESEN, OZ2I) – RD3ARU  
CW: BEST HS/E2 (SPONSOR: MARKKU KORHONEN, OH8UV) – HS0ZDY  
CW: BEST SUNDAY SCORE, 00-12 UTC (SPONSOR: PETER SUNDBERG, SM2CEW) – EU8U  
CW: BEST LOW BAND SCORE (80+40) (SPONSOR: TIMO KLIMOFF OH1NOA) – LY3BB  
SSB: BEST SOAB ASS. LP (SPONSOR: RANKO BOCA 4O3A) – 4O9TTT  
SSB: BEST JA (SPONSOR: KARI VIITAMÄKI, OH6FSG) – JA3AOP



## For Scandinavian single operators

CW + SSB: BEST YL/XYL (SPONSOR: ULF MELIN, SB3W) – DF9TM OP AT OV9M  
CW + SSB: BEST SOAB HP UNASSISTED SWEDEN (SPONSOR: TORD JULANDER SM3EVR) – SM5AQD (OP. AT SG8X)  
CW + SSB: BEST SOAB LP UNASSISTED SWEDEN (SPONSOR: TORD JULANDER SM3EVR) – SM4EPR (OP. AT SK4EA)  
CW + SSB: MOST MULTIPLIERS (SPONSOR: SANTA CLAUS OH9SCL) – OH6UM (OP AT OH1Z AND OH8X)  
CW: BEST ACCURACY (AT LEAST 300 QSOS) (SPONSOR: HENNING ANDRESEN, OZ1BII) – LA5UF  
CW: BEST SOAB HP UNASSISTED SWEDEN (SPONSOR: MIKAEL LARSMARK, SJ2W) – SM6MCW (OP AT SM6M)  
CW: BEST LOW POWER SINGLE WIRE (SPONSOR: KENNETH LYKKE POULSEN, OZ1BIZ) – SM4DQE (OP. AT SE4E)  
CW: BEST SUNDAY SCORE, 00-12 UTC (SPONSOR: PETER SUNDBERG, SM2CEW) – OH2PM (OP AT OH0R)  
SSB: BEST SOAB HP UNASSISTED SWEDEN (SPONSOR: MIKAEL LARSMARK, SJ2W) – SM5AQD (OP AT SG8X)

## For Scandinavian multi operators

SSB: HIGHEST SCORING REMOTE STATION (SPONSOR: THORVALDUR STEFANSSON, TF4M) – OH1JT, OH6EI (OP AT OH0Z)



# SAC Records - SCANDINAVIA

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	OH0V	2014	2519	5.995	274	1.642.630	OH6LI
SO AB LOW	OH0V	2013	1872	4.225	202	853.450	OH6LI
SO AB QRP	OH3BU	2002	661	1.473	125	184.125	
SA AB HIGH	OH1F	2016	1998	4.770	222	1.058.940	OH1TM
SA AB LOW	SG5W	2014	1348	3.071	192	589.632	SM5IMO
SA AB QRP	SB0A	2016	685	1.455	99	144.045	SM0LPO
SO HIGH TB-WIRE	LA8OM	2016	1828	4.220	189	797.580	LA8OM
SO LOW TB-WIRE	OH1RX	2013	1433	3.139	169	530.491	OH1RX
SO ROOKIE HIGH	OH5CZ	2016	1354	3.072	158	485.376	OH5CZ
SO ROOKIE LOW	OH5CZ	2015	803	1.701	126	214.326	OH5CZ
SO WIRE HIGH	OH6AC	2016	1349	2.970	162	481.140	OH6CS
SO WIRE LOW	OU2I	2015	885	1.900	138	262.200	OZ1BII
SO 80M	8S0DX	2016	616	1.326	50	66.300	SM0DSG
SO 40M	OH7N	2010	1120	2.602	70	182.140	OH7MA
SO 20M	OH8L	2016	1240	3.083	80	246.640	OH8LQ
SO 15M	OH6AC	2002	1074	2.706	77	208.362	OH6CS
SO 10M	OH5BM	2002	635	1.605	66	105.930	
MULTI-ONE	OH1F	2002	2174	5.248	292	1.532.416	OH1MDR OH1MM OH1NOA
MULTI-MULTI	SK3W	2002	3871	9.419	342	3.221.298	SM0GNU SM0OEK SM3EVR SM3OSM SM3SGP SM5IMO

## SSB

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	OH0B	1999	2777	7.326	304	2.227.104	OH2BH
SO AB LOW	OH4R	2002	1373	3.278	230	753.940	OH4JFN
SO AB QRP	LA1DSA	2014	236	504	83	41.832	LA1DSA
SA AB HIGH	OH5BM	2014	1558	3.470	237	822.390	OH5BM
SA AB LOW	SE5S	2014	619	1.366	148	202.168	SE5S
SA AB QRP	SM0FPR	2014	99	205	55	11.275	SM0FPR
SO HIGH TB-WIRE	8S0C	2016	659	1.515	132	199.980	SM0MPV
SO LOW TB-WIRE	OH3JP	2014	818	1.756	166	291.496	OH3JP
SO ROOKIE HIGH	LA8FTA	2015	166	335	53	17.755	LA8FTA
SO ROOKIE LOW	OH6ECM	2013	627	1.358	129	175.182	OH6ECM
SO WIRE HIGH	OH6AC	2018	587	1.223	124	151.652	OH6CS
SO WIRE LOW	SF3A	2016	489	1.030	81	83.430	SM3CER
SO 80M	OH6RX	2008	551	1.142	51	58.242	
SO 40M	OH0JFP	2009	1154	2.624	61	160.064	SM0TQX
SO 20M	OH4A	2002	1827	4.871	79	384.809	OH6LI
SO 15M	OH5BM	2000	1573	4.323	88	380.424	
SO 10M	OY9JD	2002	1185	2.971	81	240.651	
MULTI-ONE	SK3W	2002	2503	6.524	311	2.028.964	SM0GNU SM3EVR SM5IMO
MULTI-MULTI	OH2U	1999	4560	12.066	363	4.379.958	OH1JT OH2BVI OH2HE OH2IW OH2JTE OH2XX OH6CT OH7JR

# SAC Records - AFRICA

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	7X0RY	2006	404	708	125	88.500	OK1DF
SO AB LOW	EA8CN	2001	183	315	97	30.555	
SA AB HIGH	EC8AFM	2011	91	121	64	7.744	EC8AFM
SA AB LOW	ZS6C	2018	4	4	3	12	ZS6C

**SSB**

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	EA8/OH2BYS	1999	345	503	137	68.911	
SO AB LOW	EA8/OH2BP	2014	266	340	103	35.020	EA8/OH2BP
SA AB HIGH	CR3L	2012	532	826	143	118.118	DF3FS
SA AB LOW	CN8VO	2016	49	75	30	2.250	CN8VO

# SAC Records - ASIA

**CW**

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	UN9GD	2011	676	1.124	165	185.460	UN9GD
SO AB LOW	ZC4LI	2011	611	981	152	149.112	
SO AB QRP	RA9SO	2012	339	575	118	67.850	RA9SO
SA AB HIGH	RG9A	2014	765	1.345	186	250.170	RG9A
SA AB LOW	RA9AP	2014	624	1.014	177	179.478	RA9AP
SA AB QRP	UN8PT	2015	161	161	59	9.499	UN8PT
SA LB HIGH	RA9CMO	2015	294	669	72	48.168	
MULTI-ONE	UO5L	2011	742	1.258	179	225.182	UN7LZ UN9LAB

**SSB**

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	JT1CO	2014	459	801	148	118.548	JT1CO
SO AB LOW	RF9C	2012	475	701	141	98.841	RV9CBW
SO AB QRP	RV9WP	2003	145	227	67	15.209	
SA AB HIGH	5B4AIF	2011	835	1.217	184	223.928	5B4AIE
SA AB LOW	RX9CCJ	2014	292	322	93	29.946	
SA AB QRP	JA0VTK	2014	15	15	10	150	JA0VTK
SA LB HIGH	JA6GMC	2018	4	12	4	48	
MULTI-ONE	RK9CWW	2002	455	711	161	114.471	RZ9CO UA9CIR

# SAC Records - EUROPE

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	RZ3AXX	2010	653	653	178	116.234	UA8AA
SO AB LOW	R6YYY	2011	651	651	156	101.556	R6YYY
SO AB QRP	RT4W	2014	510	510	166	84.660	
SA AB HIGH	DL6FBL	2011	955	955	201	191.955	
SA AB LOW	S50XX	2014	705	705	186	131.130	S50XX
SA AB QRP	RW4WA	2014	514	514	177	90.978	RW4WA
SA LB HIGH	LY5W	2015	379	379	80	30.320	LY5W
MULTI-ONE	9A5Y	2014	792	792	192	152.064	9A3NM, 9A5CM, 9A5TO, 9A7DX

## SSB

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	ES5TV	2010	757	757	177	133.989	
SO AB LOW	I2PJA	2014	667	667	158	105.386	
SO AB QRP	HG3M	2014	431	431	137	59.047	HA3MY
SA AB HIGH	LX7I	2012	928	928	191	177.248	OH6KZP
SA AB LOW	9A9J	2014	623	623	159	99.057	9A7ZZ
SA AB QRP	RW4WA	2014	318	318	142	45.156	RW4WA
SA LB HIGH	9A9A	2017	359	359	78	28.002	
MULTI-ONE	LZ5R	2012	818	818	180	147.240	LZ1UK LZ3RR LZ4UU

# SAC Records - NORTH AMERICA

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	AA2A	2013	505	909	140	127.260	N2KW
SO AB LOW	VE3DZ	2013	427	691	133	91.903	VE3DZ
SO AB QRP	KR2Q	2010	210	348	80	27.840	
SA AB HIGH	N2KW	2011	569	983	165	162.195	N2KW
SA AB LOW	VE2BWL	2014	193	269	94	25.286	VE2BWL
SA AB QRP	AB3WS	2016	58	92	43	3.956	AB3WS
SA LB HIGH	AA2A	2016	203	609	66	40.194	N2KW
MULTI-ONE	AA3B	2010	418	726	125	90.750	

## SSB

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	K3ZO	2013	376	530	140	74.200	
SO AB LOW	VE3DZ	2002	268	346	100	34.600	
SOAB QRP	N4BP	2001	206	206	82	16.892	
SA AB HIGH	K1AR	2011	294	340	104	35.360	
SA AB LOW	W1/SP4Z	2014	61	93	48	4.464	W1/SP4Z
SA AB QRP	K8ZT	2018	26	26	18	468	K8ZT
MULTI-ONE	VA6MA	2013	291	399	105	41.895	VE6JY,VA6MA @ VE6JY

# SAC Records - OCEANIA

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	VK2APK	2002	220	266	88	23.408	
SO AB LOW	VK2APK	2001	219	267	83	22.161	
SO AB QRP	YB0ANN	2015	25	25	19	475	
SA AB HIGH	ZL2B	2014	217	269	77	20.713	ZL2B
SA AB LOW	YB2TJV	2015	41	49	23	1.127	YB2TJV
SA LB HIGH	ZM4G	2015	88	264	33	8.712	ZL2IFB
MULTI-ONE	DU1/JJ5GMJ	2010	34	76	25	1.900	

## SSB

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HIGH	VK5GN	2001	210	246	80	19.680	
SO AB LOW	VK2APK	2001	205	255	80	20.400	
SO AB QRP	YB2OK	2003	36	36	20	720	
SA AB HIGH	VK4QH	2011	177	193	66	12.738	VK4QH
SA AB LOW	YC0OST	2014	78	78	31	2.418	YC0OST
SA AB QRP	YD3VRY	2017	3	9	3	27	YD3VRY
MULTI-ONE	YB3ZCD	2014	18	18	13	234	YB3BX YB3KK YC3FZ YD3BND N1IP

# SAC Records - SOUTH AMERICA

## CW

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HI	PY2ZXU	2011	494	792	153	121.176	SM0CXU
SO AB LO	PY4FQ	2011	247	325	104	33.800	PY4FQ
SO AB QRP	PY4ZO	2011	135	175	75	13.125	PY4ZO
SA AB HI	PY2ZEA	2011	578	970	156	151.320	OH2MM
SA AB LO	PY4XX	2014	180	228	104	23.712	PY4XX
SA LB HI	CX6VM	2016	47	139	39	5.421	CX6VM
MULTI-ONE	PT5T	2011	430	718	153	109.854	PP5EG PP5NZ

## SSB

CAT	CALL	YEAR	QSO	POINTS	MULT.	SCORE	OPR.
SO AB HI	PY2ZEA	2012	360	508	133	67.564	OH2MM
SO AB LO	YV8AD	2011	171	317	74	23.458	YV8AD
SO AB QRP	PY4ZO	2011	24	24	18	432	PY4ZO
SA AB HI	PS2T	2018	214	340	102	34.680	
SA AB LO	PY5FO	2014	154	154	68	10.472	PY5FO
SA AB QRP	PU1MHZ	2014	17	17	13	221	PU1MHZ
SA LB HI	PY5DC	2016	10	30	8	240	PY5DC
MULTI-ONE	PS2T	2007	203	377	75	28.275	

## OH8X - SAC CW M/S

Operators:  
Olli/OH0XX,  
Jouko/OH1RX,  
Jorma/OH2KI

Big thanks to **Veijo/OH6KN** and  
**Juha/OH8NC** to give us the opportunity to  
work from the  
**Arcala super station!**

73  
Jouko Häyrynen / OH1RX



## LA2AB



LA7MFA have sent us this picture of the antennas at the LA2AB station.



# Results SAC CW 2018 SCANDINAVIA

SINGLE OPERATOR ALL BAND HIGH POWER - SCANDINAVIA CW									
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS	
1	OH0R	2018	CW	1883	4.273	184	786.232	OH2PM	
2	OH1Z	2018	CW	1798	3.950	182	718.900	OH6UM	
3	OG7A	2018	CW	1739	3.867	179	692.193	OH6MW	
4	OG2B	2018	CW	1735	3.897	173	674.181	OH2GEK	
5	OZ1AA	2018	CW	1636	3.654	168	613.872	OZ1AA	
6	LA4C	2018	CW	1624	3.555	156	554.580	LA8OM	
7	SM6M	2018	CW	1344	2.919	161	469.959	SM6MCW	
8	OZ1LO	2018	CW	1428	3.170	147	465.990	OZ1LO	
9	SG8X	2018	CW	1289	2.824	163	460.312	SM5AQD	
10	SM2T	2018	CW	1311	2.802	140	392.280	SM2EZT	
11	SM5GLC	2018	CW	1270	2.755	139	382.945	SM5GLC	
12	OH6NJ	2018	CW	1264	2.712	138	374.256	OH6NJ	
13	SM5EPO	2018	CW	1117	2.437	141	343.617	SM5EPO	
14	OH2XX	2018	CW	1116	2.469	137	338.253		
15	LA0CX	2018	CW	1211	2.555	124	316.820	LA0CX	
16	OH4BCS	2018	CW	1078	2.291	128	293.248	OH1ZAA	
17	LA8HGA	2018	CW	1140	2.445	116	283.620	LA8HGA	
18	OH2BAI	2018	CW	1034	2.202	127	279.654	OH2BAI	
19	SM5FUG	2018	CW	1071	2.264	120	271.680	SM5FUG	
20	SD6E	2018	CW	1098	2.380	110	261.800	SM6BGG	
21	SD7W	2018	CW	1038	2.182	118	257.476	DL2SWW	
22	OZ8SW	2018	CW	1006	2.143	115	246.445		
23	SM5COP	2018	CW	1027	2.222	108	239.976	SM5COP	
24	OH3Z	2018	CW	879	1.923	124	238.452	OH1NX	
25	SM0T	2018	CW	891	1.954	122	238.388		
26	LB4UH	2018	CW	949	2.005	110	220.550		
27	OH5YU	2018	CW	971	2.013	107	215.391	OH5YU	
28	OH6RE	2018	CW	816	1.726	112	193.312	OH6RE	
29	OZ3SM	2018	CW	803	1.710	102	174.420	OZ3SM	
30	SE5B	2018	CW	808	1.721	101	173.821	SM5CBN	
31	OH2BLV	2018	CW	771	1.642	99	162.558	OH2BLV	
32	LA2US	2018	CW	798	1.641	86	141.126	LA2US	
33	OZ2U	2018	CW	672	1.433	97	139.001		
34	OG3G	2018	CW	624	1.386	97	134.442	OG3G	
35	SD1A	2018	CW	681	1.438	91	130.858	SM1TDE	
36	SM0S	2018	CW	655	1.382	90	124.380		
37	OG4T	2018	CW	569	1.189	96	114.144	OH4MFA	

SINGLE OPERATOR ALL BAND HIGH POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
38	SM6NET	2018	CW	592	1.260	89	112.140	SM6NET
39	SI2E	2018	CW	611	1.290	86	110.940	SM2EKA
40	OH7KBF	2018	CW	525	1.098	95	104.310	OH7KBF
41	OH6CT	2018	CW	495	1.076	84	90.384	OH6CT
42	OH3JR	2018	CW	482	990	90	89.100	
43	SA0BXV	2018	CW	428	908	80	72.640	SA0BXV
44	SM0A	2018	CW	391	825	77	63.525	SM0A
45	OH3RB	2018	CW	384	790	65	51.350	
46	OH2BKX	2018	CW	345	740	69	51.060	OH2BKX
47	SM6E	2018	CW	300	658	62	40.796	SM6FUD
48	OH5XO	2018	CW	217	470	65	30.550	OH5XO
49	OH5NE	2018	CW	182	376	55	20.680	OH5NE
50	SM6LJU	2018	CW	149	340	37	12.580	SM6LJU
51	OH1LAR	2018	CW	27	60	16	960	OH1LAR

SINGLE OPERATOR ALL BAND LOW POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	LA2AB	2018	CW	1470	3.130	153	478.890	LA7MFA
2	5Q6EE	2018	CW	1138	2.443	137	334.691	OZ1BII
3	LN8W	2018	CW	1233	2.644	126	333.144	LA3BO
4	SK4EA	2018	CW	1064	2.264	119	269.416	SM4EPR
5	SM5IMO	2018	CW	1044	2.187	116	253.692	SM5IMO
6	SF5O	2018	CW	990	2.074	111	230.214	SM0EOS
7	OH2KM	2018	CW	834	1.761	105	184.905	OH2KM
8	OH1VR	2018	CW	803	1.745	99	172.755	OH1VR
9	OH3KQ	2018	CW	762	1.591	97	154.327	OH3KQ
10	LN7TTT	2018	CW	776	1.625	93	151.125	LA5LJA
11	OH8MBN	2018	CW	760	1.567	93	145.731	OH8MBN
12	SC3N	2018	CW	694	1.443	97	139.971	ANDY EA8CN
13	5Q4X	2018	CW	700	1.471	88	129.448	DK5AX
14	OZ7BQ	2018	CW	650	1.361	95	129.295	OZ7BQ
15	SM7RYR	2018	CW	610	1.245	81	100.845	SM7RYR
16	SM6TOL	2018	CW	541	1.147	76	87.172	SM6TOL
17	SM5ACQ	2018	CW	442	925	85	78.625	SM5ACQ
18	LA2HFA	2018	CW	460	954	80	76.320	LA2HFA
19	7S75AA	2018	CW	471	967	73	70.591	SM5KRI
20	OH1NDA	2018	CW	446	941	73	68.693	OH1NDA
21	SM6NT	2018	CW	412	864	75	64.800	SM6NT
22	OZ4FF	2018	CW	390	818	79	64.622	
23	LA6CF	2018	CW	381	816	75	61.200	
24	SM5DXR	2018	CW	361	758	77	58.366	SM5DXR
25	LA5UF	2018	CW	349	705	73	51.465	LA5UF

SINGLE OPERATOR ALL BAND LOW POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
26	SM6OEF	2018	CW	360	787	64	50.368	SM6OEF
27	SG0M	2018	CW	316	661	67	44.287	SA0AQT
28	OZ5RM	2018	CW	302	649	57	36.993	OZ5RM
29	OH6LW	2018	CW	289	597	61	36.417	OH6LW
30	OH2MGA	2018	CW	274	581	59	34.279	OH2MGA
31	OH0RJ	2018	CW	294	599	55	32.945	LARS OH0RJ
32	SI5Y	2018	CW	278	612	50	30.600	SM5BKK
33	SM0Y	2018	CW	248	516	58	29.928	SM0OY
34	SE5L	2018	CW	225	464	61	28.304	SM5ALJ
35	SE7Q	2018	CW	240	501	54	27.054	SE7Q
36	SM7ATL	2018	CW	246	500	47	23.500	
37	OZ8ZS	2018	CW	193	409	57	23.313	
38	OH6XY	2018	CW	178	368	55	20.240	OH6XY
39	OH1TS	2018	CW	185	385	50	19.250	OH1TS
40	OH2EV	2018	CW	161	336	42	14.112	OH2EV
41	OH3LS	2018	CW	143	293	40	11.720	OH3LS
42	OH2HZ	2018	CW	123	266	39	10.374	
43	SM6GBM	2018	CW	142	292	35	10.220	SM6GBM
44	LA6M	2018	CW	117	244	33	8.052	LA6GX
45	OH1LWZ	2018	CW	96	200	29	5.800	
46	OH6BG	2018	CW	70	150	22	3.300	
47	SM3XAX	2018	CW	42	90	24	2.160	
48	LA7SI	2018	CW	46	98	22	2.156	LA7SI
49	SM7BHM	2018	CW	37	81	20	1.620	
50	OZ4QX	2018	CW	32	65	20	1.300	
51	OH1KH	2018	CW	17	34	11	374	OH1KH
52	OH2LIR	2018	CW	10	22	10	220	
53	LC4A	2018	CW	4	8	4	32	LC4A

SINGLE OPERATOR ALL BAND QRP POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH6LI	2018	CW	683	1.449	102	147.798	OH6LI
2	SM6JWR	2018	CW	332	673	62	41.726	SM6JWR @SM6JWR
3	OH2LU	2018	CW	268	553	62	34.286	OH2LU
4	OZ8A	2018	CW	127	259	35	9.065	
5	OH2ID	2018	CW	16	35	8	280	OH2ID
6	OH8FIU	2018	CW	13	26	7	182	OH8FIU

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OG1D	2018	CW	1493	3.334	169	563.446	OH1JD
2	OH5TS	2018	CW	1507	3.324	165	548.460	OH5TS
3	SE0X	2018	CW	1421	3.121	161	502.481	SM0MDG
4	LB8DC	2018	CW	1566	3.365	149	501.385	LB8DC
5	OG6N	2018	CW	1504	3.213	153	491.589	
6	OH8WW	2018	CW	1366	3.020	149	449.980	OH8WW
7	OH2BV	2018	CW	1202	2.691	155	417.105	OH2BV
8	OH2CV	2018	CW	1238	2.671	142	379.282	OH2CV
9	OH2MM	2018	CW	1078	2.396	150	359.400	OH2MM
10	5P8X	2018	CW	1029	2.247	134	301.098	OZ8X
11	SM5CEU	2018	CW	892	1.935	124	239.940	SM5CEU
12	LA9OI	2018	CW	1016	2.121	109	231.189	LA9OI
13	OH3FM	2018	CW	908	1.937	110	213.070	OH3FM
14	SA6DXG	2018	CW	890	1.846	112	206.752	SA6DXG
15	OH5BM	2018	CW	821	1.767	109	192.603	OH5BM
16	SC3A	2018	CW	712	1.536	116	178.176	SM3WMU
17	OU4N	2018	CW	642	1.405	110	154.550	OU4N
18	LC7M	2018	CW	701	1.490	103	153.470	LC7M
19	OH5KW	2018	CW	601	1.286	114	146.604	OH5KW
20	OH6BA	2018	CW	633	1.344	90	120.960	OH6BA
21	SM0FPR	2018	CW	544	1.141	94	107.254	SM0FPR
22	OZ2TF	2018	CW	482	1.029	95	97.755	OZ2TF
23	SD6M	2018	CW	470	1.020	81	82.620	SA6BGR
24	OH8WR	2018	CW	504	1.096	75	82.200	OH8WR
25	SM2A	2018	CW	399	876	79	69.204	SM2ILF
26	OH3KAV	2018	CW	269	575	59	33.925	OH3KAV
27	SC6W	2018	CW	293	611	33	20.163	SM6PPS
28	LA7NFA	2018	CW	105	233	50	11.650	LA7NFA
29	OH7HM	2018	CW	41	88	21	1.848	OH7HM
30	OH1KB	2018	CW	54	109	16	1.744	OH1KB
31	OH8GET	2018	CW	29	70	18	1.260	OH8GET
32	SE0N	2018	CW	9	20	8	160	SM0TCZ

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	SC0N	2018	CW	1195	2.525	127	320.675	SC0N
2	SE4E	2018	CW	977	2.056	125	257.000	SM4DQE
3	SA6G	2018	CW	859	1.850	112	207.200	SM6CUK
4	LA7AK	2018	CW	898	1.829	104	190.216	LA7AK
5	OH3GGQ	2018	CW	809	1.681	102	171.462	OH3GGQ
6	OZ0B	2018	CW	659	1.381	103	142.243	OZ1ISY
7	OZ1IVA	2018	CW	492	1.016	87	88.392	OZ1IVA

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
8	OZ4CG	2018	CW	445	918	86	78.948	OZ4CG
9	OH2LNH	2018	CW	422	867	69	59.823	OH2LNH
10	SM3OMO	2018	CW	360	763	63	48.069	SM3OMO
11	SM5EFX	2018	CW	299	631	72	45.432	SM5EFX
12	OH3AC	2018	CW	274	620	72	44.640	OH3OQ
13	SI7T	2018	CW	303	642	66	42.372	SM7LZQ
14	SM7IUN	2018	CW	199	406	59	23.954	SM7IUN
15	SM5CNQ	2018	CW	203	417	54	22.518	SM5CNQ
16	SM0Q	2018	CW	206	433	40	17.320	SM0OGQ
17	OH3LQK	2018	CW	166	353	43	15.179	OH3LQK
18	OH8TU	2018	CW	62	125	20	2.500	OH8TU
19	OZ1THC	2018	CW	46	92	18	1.656	
20	SB7W	2018	CW	34	70	17	1.190	
21	OH3CK	2018	CW	23	47	15	705	OH3CK
22	LA8CJ	2018	CW	23	52	10	520	LA8CJ
23	OH3R	2018	CW	13	28	12	336	OH3CK
24	SM4LRA	2018	CW	12	26	12	312	SM4LRA
25	OH7KD	2018	CW	8	16	7	112	OH7KD

SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	SM0LPO	2018	CW	533	1.105	91	100.555	SM0LPO
2	OG3X	2018	CW	184	400	65	26.000	

SINGLE OPERATOR ALL BAND HIGH POWER TB-WIRES - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	LB8DC	2018	CW	1566	3.365	149	501.385	LB8DC
2	SM5GLC	2018	CW	1270	2.755	139	382.945	SM5GLC
3	OH6NJ	2018	CW	1264	2.712	138	374.256	OH6NJ
4	OH2BAI	2018	CW	1034	2.202	127	279.654	OH2BAI
5	SM5FUG	2018	CW	1071	2.264	120	271.680	SM5FUG
6	SA6DXG	2018	CW	890	1.846	112	206.752	SA6DXG
7	OZ3SM	2018	CW	803	1.710	102	174.420	OZ3SM
8	SE5B	2018	CW	808	1.721	101	173.821	SM5CBN
9	LA2US	2018	CW	798	1.641	86	141.126	LA2US
10	SD1A	2018	CW	681	1.438	91	130.858	SM1TDE
11	SM0FPR	2018	CW	544	1.141	94	107.254	SM0FPR
12	SD6M	2018	CW	470	1.020	81	82.620	SA6BGR
13	OH1LAR	2018	CW	27	60	16	960	OH1LAR
14	SE0N	2018	CW	9	20	8	160	SM0TCZ

SINGLE OPERATOR ALL BAND HIGH POWER WIRE-ONLY						- SCANDINAVIA CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	LA0CX	2018	CW	1211	2.555	124	316.820	LA0CX
2	SD7W	2018	CW	1038	2.182	118	257.476	DL2SWW
3	OH3FM	2018	CW	908	1.937	110	213.070	OH3FM
4	OH6BA	2018	CW	633	1.344	90	120.960	OH6BA

SINGLE OPERATOR ALL BAND LOW/QRP POWER TB-WIRES						- SCANDINAVIA CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	5Q6EE	2018	CW	1138	2.443	137	334.691	OZ1BII
2	SK4EA	2018	CW	1064	2.264	119	269.416	SM4EPR
3	SA6G	2018	CW	859	1.850	112	207.200	SM6CUK
4	LA7AK	2018	CW	898	1.829	104	190.216	LA7AK
5	LN7TTT	2018	CW	776	1.625	93	151.125	LA5LJA
6	OH8MBN	2018	CW	760	1.567	93	145.731	OH8MBN
7	OZ0B	2018	CW	659	1.381	103	142.243	OZ1ISY
8	SM0LPO	2018	CW	533	1.105	91	100.555	SM0LPO
9	LA2HFA	2018	CW	460	954	80	76.320	LA2HFA
10	OH1NDA	2018	CW	446	941	73	68.693	OH1NDA
11	SG0M	2018	CW	316	661	67	44.287	SA0AQ
12	SI5Y	2018	CW	278	612	50	30.600	SM5BKK
13	OZ8ZS	2018	CW	193	409	57	23.313	
14	OH3LS	2018	CW	143	293	40	11.720	OH3LS
15	OH2HZ	2018	CW	123	266	39	10.374	
16	OZ8A	2018	CW	127	259	35	9.065	
17	OH6BG	2018	CW	70	150	22	3.300	
18	SB7W	2018	CW	34	70	17	1.190	
19	OH8FIU	2018	CW	13	26	7	182	OH8FIU

SINGLE OPERATOR ALL BAND LOW/QRP POWER WIRE-ONLY						- SCANDINAVIA CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	SE4E	2018	CW	977	2.056	125	257.000	SM4DQE
2	SF5O	2018	CW	990	2.074	111	230.214	SM0EOS
3	OH2KM	2018	CW	834	1.761	105	184.905	OH2KM
4	OH3KQ	2018	CW	762	1.591	97	154.327	OH3KQ
5	SC3N	2018	CW	694	1.443	97	139.971	ANDY EA8CN
6	5Q4X	2018	CW	700	1.471	88	129.448	DK5AX
7	OZ1IVA	2018	CW	492	1.016	87	88.392	OZ1IVA
8	7S75AA	2018	CW	471	967	73	70.591	SM5KRI
9	SI7T	2018	CW	303	642	66	42.372	SM7LZQ
10	SM0Y	2018	CW	248	516	58	29.928	SM0OY
11	OH3LQK	2018	CW	166	353	43	15.179	OH3LQK
12	OH2EV	2018	CW	161	336	42	14.112	OH2EV
13	OH3CK	2018	CW	23	47	15	705	OH3CK

SINGLE OPERATOR 80 METER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	7S1DX	2018	CW	601	1.255	44	55.220	SM0DSG
2	OZ4UN	2018	CW	460	934	40	37.360	OZ4UN
3	SM0HEK	2018	CW	270	544	27	14.688	

SINGLE OPERATOR 40 METER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH7K	2018	CW	1080	2.376	63	149.688	OH2KW
2	OH2IS	2018	CW	857	1.833	57	104.481	OH2IS
3	OH2BJ	2018	CW	844	1.771	51	90.321	OH2BJ
4	OZ5W	2018	CW	692	1.515	50	75.750	OZ1ETA
5	5Q2A	2018	CW	735	1.520	49	74.480	OZ2A
6	SM6FPC	2018	CW	520	1.072	40	42.880	
7	SE6W	2018	CW	458	929	37	34.373	SE6W
8	OU2V	2018	CW	382	808	41	33.128	OZ1FJB
9	OH7MFO	2018	CW	315	642	34	21.828	OH7MFO
10	OH6DH	2018	CW	292	599	32	19.168	OH6DH
11	SM6IQD	2018	CW	265	544	28	15.232	
12	SM6V	2018	CW	195	398	30	11.940	SM6VAOO
13	LB3RE	2018	CW	153	309	23	7.107	LB3RE
14	OH7JL	2018	CW	88	181	19	3.439	OH7JL
15	OH5UQ	2018	CW	19	38	12	456	OH5UQ

SINGLE OPERATOR 20 METER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH8L	2018	CW	904	2.113	65	137.345	OH8LQ
2	OG55W	2018	CW	689	1.598	66	105.468	OH2OT
3	SK5A	2018	CW	653	1.526	56	85.456	SM5GMZ
4	OY1CT	2018	CW	521	1.080	41	44.280	OY1CT
5	SM3CZS	2018	CW	360	783	45	35.235	SM3CZS
6	OZ8PG	2018	CW	305	715	38	27.170	OZ8PG
7	LN5O	2018	CW	328	710	36	25.560	LN5O
8	SM6CNN	2018	CW	230	493	37	18.241	SM6CNN
9	SM3PZG	2018	CW	220	467	33	15.411	SM3PZG
10	OH3AR	2018	CW	150	342	29	9.918	
11	OH2BN	2018	CW	121	269	31	8.339	OH2BN
12	SM2CVH	2018	CW	54	119	25	2.975	SM2CVH
13	OZ4FA	2018	CW	27	62	13	806	OZ4FA
14	LA9DK	2018	CW	30	63	11	693	LA9DK
15	SF7WT	2018	CW	5	11	4	44	SM7WT

SINGLE OPERATOR 15 METER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH1MA	2018	CW	12	26	5	130	
2	OH3BCX	2018	CW	9	21	5	105	OH1ZAA

SINGLE OPERATOR 10 METER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH2MZA	2018	CW	1	2	1	2	OH1ZAA

MULTI OPERATOR SINGLE TRANSMITTER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH0Z	2018	CW	1863	4.193	212	888.916	OH1JT OH2XX OH6EI
2	OG7F	2018	CW	1915	4.233	194	821.202	OH5DA, RW1AC, RV1AW, RT1M
3	OH8X	2018	CW	1663	3.652	171	624.492	OH0XX OH1RX OH2KI
4	SC7DX	2018	CW	1300	2.899	145	420.355	SM7IUN, SM7GIB
5	OH2BAH	2018	CW	1290	2.840	140	397.600	OH2BAH OH2BMN OH2PQ
6	SM5DXT	2018	CW	1138	2.411	149	359.239	SM5DXT SM5GMG
7	SI9AM	2018	CW	1363	2.900	122	353.800	SM3EAE SM3FJF SM5SIC
8	SK0QO	2018	CW	1228	2.633	126	331.758	SM0DSF
9	OV2T	2018	CW	1082	2.346	139	326.094	PA0ABM PA7JWC PD2R
10	LN4BBC	2018	CW	329	693	71	49.203	LA5FBA, LA6ZFA

MULTI OPERATOR MULTI TRANSMITTER - SCANDINAVIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	SK3W	2018	CW	2565	5.761	243	1.399.923	SM3SGP SM5AJV SM5CCT SM5PHU
2	OG60F	2018	CW	2455	5.456	224	1.222.144	OH1HS OH1NOA OH1TM
3	OJ0DX	2018	CW	2648	5.772	202	1.165.944	DL2JRM DL3DXX DL5LYM DL5SE
4	OH9W	2018	CW	2376	5.216	194	1.011.904	OH2BCI OH2BEE OH2TA OH5BQ

CHECKLOGS - SCANDINAVIA CW								
OG3C, OH8KA, OZ6GH, SD0T, SM6Q, TF3VS								



# Results SAC CW 2018 AFRICA



SINGLE OPERATOR ALL BAND LOW POWER - AFRIKA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	V51YJ	2018	CW	98	134	56	7.504	V51YJ
2	EA8/DL2DXA/P	2018	CW	6	6	5	30	

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - AFRIKA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	ZS6C	2018	CW	4	4	3	12	ZS6C

CHECKLOGS - AFRIKA CW	
5Z4/LZ4NM	

# Results SAC CW 2018 ASIA



SINGLE OPERATOR ALL BAND HIGH POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	R8WF	2018	CW	400	852	108	92.016	
2	R9AB	2018	CW	273	569	95	54.055	R9AB
3	RM9T	2018	CW	253	461	80	36.880	
4	JA6GCE	2018	CW	235	417	83	34.611	JA6GCE
5	RX9CM	2018	CW	133	271	69	18.699	RX9CM
6	JH1OGC	2018	CW	115	213	58	12.354	
7	JA7ACM	2018	CW	126	220	51	11.220	JA7ACM
8	R0AA	2018	CW	90	168	49	8.232	R0AA
9	JA6BWH	2018	CW	70	128	36	4.608	
10	JH1RFM	2018	CW	63	91	34	3.094	JH1RFM
11	JR2PMT	2018	CW	52	92	33	3.036	
12	RW0UM	2018	CW	46	84	26	2.184	RW0UM
13	VU2CVS	2018	CW	43	63	26	1.638	VU2CVS
14	JH0ILL	2018	CW	39	49	23	1.127	JH0ILL
15	RT8O	2018	CW	42	42	24	1.008	
16	UN7FW	2018	CW	40	40	22	880	
17	JH7RTQ	2018	CW	41	41	18	738	JH7RTQ
18	JA3DAY	2018	CW	37	37	19	703	JA3DAY
19	HS0ZDY	2018	CW	31	31	18	558	HS0ZDY
20	UA0SW	2018	CW	21	25	19	475	

SINGLE OPERATOR ALL BAND HIGH POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
21	JA8DNV	2018	CW	20	26	14	364	JA8DNV
22	JF3LOP	2018	CW	22	22	13	286	
23	JH1ACA	2018	CW	22	22	11	242	
24	JK1LUY	2018	CW	15	15	10	150	JK1LUY
25	JS1NDM	2018	CW	6	18	5	90	
26	7N4LNK	2018	CW	7	11	6	66	
27	JI5SKS	2018	CW	4	12	4	48	

SINGLE OPERATOR ALL BAND LOW POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RA9CCK	2018	CW	192	418	72	30.096	
2	UI8C	2018	CW	181	403	74	29.822	
3	RL9L	2018	CW	165	343	68	23.324	
4	RW0AJ	2018	CW	155	267	73	19.491	RW0AJ
5	UA9JNT	2018	CW	142	282	66	18.612	
6	UN7LDR	2018	CW	147	285	65	18.525	
7	RM8G	2018	CW	201	201	79	15.879	RM8G
8	UA9SMU	2018	CW	111	333	43	14.319	UA9SMU
9	UN6LN	2018	CW	137	225	55	12.375	UN6LN
10	R9XS	2018	CW	144	144	67	9.648	
11	TA1NAI	2018	CW	100	170	54	9.180	TA1NAI
12	R8WO	2018	CW	87	153	46	7.038	R8WO
13	RT0O	2018	CW	69	143	39	5.577	
14	JA6WFM	2018	CW	82	136	40	5.440	JA6WFM
15	TA2BS	2018	CW	93	119	44	5.236	
16	UN7CN	2018	CW	72	120	42	5.040	UN7CN
17	4K9W	2018	CW	77	113	44	4.972	
18	RK9AK	2018	CW	90	126	39	4.914	RK9AK
19	UN0LM	2018	CW	116	116	35	4.060	
20	RN9RF	2018	CW	119	119	33	3.927	
21	RL9I	2018	CW	74	98	35	3.430	RL9I
22	JA2KKKA	2018	CW	52	108	28	3.024	
23	R9QQ	2018	CW	70	86	31	2.666	
24	RT9X	2018	CW	65	65	41	2.665	RT9X
25	JH2XQY	2018	CW	36	70	23	1.610	JH2XQY
26	JR6GIM	2018	CW	47	47	24	1.128	JR6GIM
27	JA2HYD	2018	CW	42	44	20	880	
28	RA9YUI	2018	CW	22	42	19	798	RA9YUI
29	R9OO/9	2018	CW	37	37	21	777	R9OO/9
30	JA3UWB	2018	CW	40	40	17	680	
31	UD8V	2018	CW	27	27	17	459	
32	TA3AER	2018	CW	24	28	16	448	TA3AER

SINGLE OPERATOR ALL BAND LOW POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
33	JE1REU	2018	CW	24	28	14	392	
34	JS1KKY	2018	CW	27	27	14	378	JS1KKY
35	JA0BJY	2018	CW	24	24	15	360	
36	JH3WKE	2018	CW	19	21	15	315	
37	JE1RRK	2018	CW	21	21	11	231	
38	HL2CFY	2018	CW	10	22	10	220	HL2CFY
39	JA2GHP	2018	CW	15	15	10	150	JA2GHP
40	JA6CVR	2018	CW	13	15	8	120	
41	JJ3TBB/3	2018	CW	7	19	6	114	JJ3TBB
42	HS8JWH	2018	CW	13	13	8	104	HS8JWH
43	JA1CRJ	2018	CW	10	10	8	80	
44	JH0ROS/1	2018	CW	5	15	4	60	
45	TA4PR	2018	CW	8	8	6	48	
46	JK1TCV	2018	CW	4	12	4	48	
47	JA8RRF	2018	CW	7	7	6	42	
48	JN1HYU	2018	CW	5	5	4	20	
49	BD4LB	2018	CW	2	6	2	12	BD4LB
50	RK9JR	2018	CW	3	3	3	9	
51	JG1WKM	2018	CW	3	3	3	9	
52	JA2QVP	2018	CW	3	3	3	9	
53	JF1WCK	2018	CW	2	2	2	4	JF1WCK

SINGLE OPERATOR ALL BAND QRP POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UN7EG	2018	CW	68	126	45	5.670	UN7EG
2	TA4A	2018	CW	44	84	31	2.604	TA4A
3	RA0AY	2018	CW	16	48	10	480	
4	UA0SBQ/P	2018	CW	21	25	14	350	
5	JK7DWD	2018	CW	26	26	12	312	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	R8TT	2018	CW	461	1.015	121	122.815	R8TT
2	4Z5LY	2018	CW	325	593	125	74.125	4Z5LY
3	UN9GD	2018	CW	267	467	105	49.035	
4	UA9BA	2018	CW	215	445	95	42.275	
5	JN4MMO	2018	CW	218	394	80	31.520	JN4MMO
6	UN7LZ	2018	CW	143	335	72	24.120	
7	RD0A	2018	CW	148	244	66	16.104	
8	JH4UTP	2018	CW	141	227	59	13.393	JH4UTP
9	4X1VF	2018	CW	116	120	53	6.360	4X1VF

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
10	RF9C	2018	CW	101	135	46	6.210	UA9CIR
11	4X6FR	2018	CW	87	87	44	3.828	4X6FR
12	JE1NVD	2018	CW	56	78	29	2.262	JE1NVD
13	RQ9O	2018	CW	71	71	30	2.130	RQ9O
14	RU0LL	2018	CW	58	72	27	1.944	RU0LL
15	JG1LFR	2018	CW	23	41	17	697	
16	TA4CS	2018	CW	16	46	12	552	TA4CS
17	A75GA	2018	CW	23	23	19	437	A75GA
18	4Z1DZ	2018	CW	13	29	12	348	
19	JA0GCY	2018	CW	15	17	9	153	JA0GCY
20	VU2IBI	2018	CW	11	13	10	130	VU2IBI
21	JA3VOV	2018	CW	5	9	5	45	
22	JE6HID	2018	CW	2	6	2	12	

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UN2E	2018	CW	100	300	51	15.300	
2	JA5NSR	2018	CW	69	159	40	6.360	
3	UA8WAA	2018	CW	50	150	35	5.250	
4	JO7KMB	2018	CW	53	97	32	3.104	
5	JN3TMW	2018	CW	18	54	12	648	

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	5B/RN3QO	2018	CW	378	728	131	95.368	
2	EX8MJ	2018	CW	199	343	91	31.213	EX8MJ
3	RA9MX	2018	CW	190	348	86	29.928	RA9MX
4	4Z5LU	2018	CW	158	198	72	14.256	4Z5LU
5	UN8PT	2018	CW	148	194	57	11.058	UN8PT
6	R9SS	2018	CW	73	131	42	5.502	
7	UA9R	2018	CW	67	129	41	5.289	
8	RX9FB	2018	CW	109	109	35	3.815	RX9FB
9	JA5QJX/0	2018	CW	44	68	22	1.496	JA5QJX
10	BG8NKX	2018	CW	43	49	25	1.225	BG8NKX
11	JA4XHF/3	2018	CW	51	51	23	1.173	
12	JG1EIQ	2018	CW	24	72	14	1.008	JG1EIQ
13	JT1BV	2018	CW	32	46	20	920	JT1BV
14	8T8S	2018	CW	39	39	23	897	VU2AE
15	JA7ZP	2018	CW	13	39	11	429	JA7ZP
16	HL1VAU	2018	CW	25	25	13	325	
17	HS8JKY	2018	CW	11	31	9	279	HS8JKY

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
18	JF2IWL	2018	CW	19	19	12	228	JF2IWL
19	HS8HEX	2018	CW	8	18	8	144	HS8HEX

MULTI OPERATOR SINGLE TRANSMITTER - ASIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RM8L	2018	CW	365	767	99	75.933	RA9LT, KOSTYA, SVETA
2	RC9J	2018	CW	155	317	74	23.458	R9JR, R9JE
3	R0AK	2018	CW	53	53	26	1.378	UB0AJJ R0AGO
4	JK2VOC	2018	CW	50	52	20	1.040	JK2VOC

CHECKLOGS - ASIA CW								
JA3AVO, RA9DZ, UN3GX								



## Results SAC CW 2018 EUROPE

SINGLE OPERATOR ALL BAND HIGH POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	LZ1GU	2018	CW	439	439	140	61.460	LZ1GU
2	LX7I	2018	CW	419	419	132	55.308	ON4RU
3	R7AW	2018	CW	426	426	125	53.250	
4	RN4W	2018	CW	452	452	117	52.884	
5	YL7X	2018	CW	386	386	115	44.390	YL2LY
6	RA3NC	2018	CW	371	371	114	42.294	
7	YO3FFF	2018	CW	348	348	120	41.760	YO3FFF
8	DJ9DZ	2018	CW	378	378	109	41.202	
9	LY2NK	2018	CW	349	349	113	39.437	LY2NK
10	RM1T	2018	CW	340	340	111	37.740	R1TE
11	G3SWC	2018	CW	351	351	106	37.206	G3SWC
12	UW1M	2018	CW	301	301	121	36.421	UR5MW
13	RT4O	2018	CW	331	331	106	35.086	UA4NCE
14	F6AGM	2018	CW	314	314	111	34.854	FM5CD
15	HA7PL	2018	CW	246	246	96	23.616	
16	EW1FM	2018	CW	245	245	92	22.540	
17	UX3HA	2018	CW	232	232	88	20.416	

SINGLE OPERATOR ALL BAND HIGH POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
18	IK8UND	2018	CW	242	242	84	20.328	
19	UA3QGT	2018	CW	201	201	90	18.090	UA3QGT
20	OK2ABU	2018	CW	197	197	90	17.730	
21	UA4PAQ	2018	CW	197	197	85	16.745	
22	I2IFT	2018	CW	183	183	85	15.555	I2IFT
23	EW8OM	2018	CW	200	200	77	15.400	
24	HB9EBC	2018	CW	182	182	78	14.196	HB9EBC
25	DL5WS	2018	CW	158	158	82	12.956	
26	HB9ARF	2018	CW	173	173	73	12.629	HB9ARF
27	MM3N	2018	CW	152	152	72	10.944	GM4SID
28	UR3QX	2018	CW	149	149	70	10.430	UR3QX
29	UR4EI	2018	CW	155	155	66	10.230	UR4EI
30	UT7IS	2018	CW	171	171	59	10.089	
31	F5JFU	2018	CW	137	137	71	9.727	F5JFU
32	RC7B	2018	CW	153	153	63	9.639	
33	SN6A	2018	CW	107	107	66	7.062	
34	RV3TG	2018	CW	107	107	52	5.564	RV3TG
35	YO3GNF	2018	CW	116	116	46	5.336	YO3GNF
36	OK1HFP	2018	CW	138	138	38	5.244	OK1HFP
37	PA3AAV	2018	CW	99	99	50	4.950	PA3AAV
38	G4SGI	2018	CW	98	98	50	4.900	G4SGI
39	LZ1GE	2018	CW	103	103	47	4.841	LZ1GE
40	DF5BX	2018	CW	86	86	53	4.558	DF5BX
41	DK3AX	2018	CW	91	91	50	4.550	DK3AX
42	OM5VS	2018	CW	93	93	43	3.999	
43	F5OHM	2018	CW	87	87	45	3.915	F5OHM
44	US3LX	2018	CW	86	86	44	3.784	
45	ES1BH	2018	CW	81	81	46	3.726	ES1BH
46	EW6EN	2018	CW	95	95	39	3.705	EW6EN
47	OK1CF	2018	CW	96	96	35	3.360	
48	OE3BKC	2018	CW	76	76	43	3.268	
49	SV2DSJ	2018	CW	73	73	44	3.212	SV2DSJ
50	RA6MQ	2018	CW	61	61	49	2.989	
51	SP1JQJ	2018	CW	92	92	30	2.760	SP1JQJ
52	PA2CHM	2018	CW	67	67	41	2.747	PA2CHM
53	DL5DBY	2018	CW	64	64	37	2.368	DL5DBY
54	OK1KMU	2018	CW	66	66	33	2.178	OK1HFP
55	RA3TT	2018	CW	58	58	37	2.146	RA3TT
56	Z35Y	2018	CW	65	65	33	2.145	Z35Y
57	OK1FRO	2018	CW	70	70	29	2.030	OK1FRO
58	UT3UV	2018	CW	49	49	33	1.617	UT3UV
59	R5AK	2018	CW	46	46	35	1.610	

SINGLE OPERATOR ALL BAND HIGH POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
60	DG0KS	2018	CW	64	64	25	1.600	DG0KS
61	LY2AX	2018	CW	42	42	33	1.386	LY2AX
62	DL7UGO	2018	CW	46	46	29	1.334	DL7UGO
63	SV9RPE	2018	CW	40	40	27	1.080	SV9RPE
64	RK7F	2018	CW	35	35	21	735	RK7F
65	DL8DYL	2018	CW	25	25	23	575	
66	DK8RE	2018	CW	30	30	19	570	DK8RE
67	F5NBX	2018	CW	24	24	18	432	
68	IK1BPL	2018	CW	22	22	16	352	
69	DG8KAD	2018	CW	17	17	13	221	DG8KAD
70	OM3CND	2018	CW	16	16	12	192	OM3CND
71	DL6DVU	2018	CW	10	10	10	100	
72	IK5TBK	2018	CW	1	1	1	1	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RA3Y	2018	CW	419	419	122	51.118	RA3Y
2	TM6M	2018	CW	413	413	123	50.799	
3	YO4NF	2018	CW	406	406	116	47.096	YO4NF
4	R7MC	2018	CW	319	319	113	36.047	
5	RV3A	2018	CW	301	301	115	34.615	
6	EU6DX	2018	CW	321	321	104	33.384	
7	UT3IA	2018	CW	293	293	104	30.472	
8	OK2MBP	2018	CW	294	294	103	30.282	
9	US5XD	2018	CW	299	299	100	29.900	
10	OL3E	2018	CW	287	287	99	28.413	
11	UX5UO	2018	CW	270	270	102	27.540	
12	HA3MU	2018	CW	267	267	97	25.899	HA3MU
13	UG4A	2018	CW	277	277	92	25.484	UG4A
14	DL1CW	2018	CW	269	269	94	25.286	DL1CW
15	YU1YV	2018	CW	232	232	101	23.432	
16	RN6BP	2018	CW	240	240	97	23.280	RN6BP
17	YO5AXF	2018	CW	230	230	97	22.310	YO5AXF
18	R3OM	2018	CW	242	242	92	22.264	
19	SP1AEN	2018	CW	268	268	81	21.708	SP1AEN
20	RA3VX	2018	CW	218	218	98	21.364	RA3VX
21	HG2DX	2018	CW	224	224	94	21.056	
22	S58MU	2018	CW	207	207	97	20.079	S58MU
23	YO7ARZ	2018	CW	222	222	89	19.758	YO7ARZ
24	RN4SC	2018	CW	221	221	89	19.669	RN4SC
25	OK1IBP	2018	CW	215	215	91	19.565	
26	R7KX	2018	CW	228	228	85	19.380	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
27	DK3WM	2018	CW	206	206	94	19.364	
28	OK1FMG	2018	CW	229	229	84	19.236	
29	ON3ND	2018	CW	208	208	92	19.136	
30	EU6RO	2018	CW	243	243	78	18.954	
31	PC3T	2018	CW	196	196	93	18.228	
32	OK5SA	2018	CW	202	202	90	18.180	
33	DL5KUD	2018	CW	209	209	86	17.974	DL5KUD
34	I0IA	2018	CW	198	198	88	17.424	
35	OM3BA	2018	CW	202	202	86	17.372	OM3BA JOZEF
36	YL3AD	2018	CW	220	220	74	16.280	YL3AD
37	YL2CV	2018	CW	216	216	75	16.200	YL2CV
38	UA3ABJ	2018	CW	187	187	86	16.082	
39	LZ2CH	2018	CW	214	214	74	15.836	LZ2CH
40	SP4AWE	2018	CW	213	213	74	15.762	SP4AWE
41	OK1DVA	2018	CW	197	197	80	15.760	
42	4O9TTT	2018	CW	182	182	85	15.470	4O9TTT
43	RA3MD	2018	CW	194	194	79	15.326	RA3MD
44	HA1RJ	2018	CW	204	204	75	15.300	
45	R6AJ	2018	CW	201	201	74	14.874	R6AJ
46	EA1WH	2018	CW	219	219	67	14.673	
47	SN100L	2018	CW	183	183	80	14.640	SP9ADU
48	OE5CYL	2018	CW	182	182	78	14.196	OE5CYL
49	S57X	2018	CW	170	170	83	14.110	S57X
50	R4WAE	2018	CW	204	204	65	13.260	R4WAE
51	G3RSD	2018	CW	174	174	76	13.224	G3RSD
52	YO2CJX	2018	CW	151	151	87	13.137	
53	US3EW	2018	CW	178	178	71	12.638	
54	I6FDJ	2018	CW	172	172	72	12.384	
55	SV1AJO	2018	CW	177	177	69	12.213	SV1AJO
56	LZ3PZ	2018	CW	145	145	83	12.035	LZ3PZ
57	R7RC	2018	CW	150	150	77	11.550	R7RC
58	OK1IE	2018	CW	150	150	76	11.400	
59	OK1HEH	2018	CW	157	157	72	11.304	OK1HEH
60	UV3RT	2018	CW	159	159	71	11.289	UV3RT
61	UY5QR	2018	CW	154	154	73	11.242	UY5QR
62	UR5ZGY	2018	CW	175	175	64	11.200	
63	OK2BH	2018	CW	153	153	73	11.169	OK2BH
64	SQ3WW	2018	CW	166	166	67	11.122	SQ3WW
65	YO3GCL	2018	CW	144	144	77	11.088	YO3GCL
66	CT1DRB	2018	CW	145	145	75	10.875	CT1DRB
67	OK1GS	2018	CW	150	150	72	10.800	OK1GS
68	RA3XCZ	2018	CW	156	156	69	10.764	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
69	DL1EAL	2018	CW	151	151	71	10.721	DL1EAL
70	G3ZGC	2018	CW	147	147	72	10.584	G3ZGC
71	OK2QX	2018	CW	140	140	74	10.360	
72	LZ8Z	2018	CW	163	163	63	10.269	LZ2HT
73	DL7YS	2018	CW	137	137	74	10.138	DL7YS
74	HB9BQU	2018	CW	139	139	72	10.008	HB9BQU
75	PA3HCC	2018	CW	146	146	68	9.928	PA3HCC
76	PA2W	2018	CW	144	144	68	9.792	PA2W
77	YO9KPD	2018	CW	132	132	73	9.636	YO3AAJ
78	LZ1IA	2018	CW	142	142	67	9.514	LZ1IA
79	OK5M	2018	CW	131	131	72	9.432	OK5MM
80	DJ1AK	2018	CW	146	146	64	9.344	DJ1AK
81	LY5T	2018	CW	161	161	58	9.338	LY5T
82	OK2SGY	2018	CW	141	141	66	9.306	OK2SGY
83	CT1ELZ	2018	CW	141	141	64	9.024	CT1ELZ
84	OK1FCA	2018	CW	134	134	67	8.978	OK1FCA
85	F5ICC	2018	CW	133	133	67	8.911	F5ICC
86	RW4HS	2018	CW	156	156	57	8.892	RW4HS
87	R1QE	2018	CW	143	143	62	8.866	R1QE
88	RM7F	2018	CW	151	151	58	8.758	
89	RK6HG	2018	CW	147	147	57	8.379	
90	YO2CEQ	2018	CW	128	128	65	8.320	YO2CEQ
91	OM8VL	2018	CW	127	127	65	8.255	OM8VL
92	RL6MF	2018	CW	150	150	54	8.100	
93	DL0ABT	2018	CW	137	137	57	7.809	
94	R3MU	2018	CW	128	128	61	7.808	R3MU
95	OK2OCT	2018	CW	125	125	62	7.750	OK2LET
96	UA6HFI	2018	CW	131	131	59	7.729	UA6HFI
97	ES1QD	2018	CW	140	140	55	7.700	ES1QD
98	DM900ZWI	2018	CW	125	125	61	7.625	
99	OE1CIW	2018	CW	126	126	60	7.560	
100	SP9R	2018	CW	130	130	58	7.540	SP9BRP
101	OK1PFM	2018	CW	112	112	66	7.392	
102	DK3CC	2018	CW	117	117	61	7.137	
103	UR5KO	2018	CW	123	123	58	7.134	UR5KO
104	G3VYI	2018	CW	108	108	66	7.128	G3VYI
105	UA4QK	2018	CW	124	124	57	7.068	
106	EA7AAW	2018	CW	126	126	56	7.056	EA7AAW
107	LZ3TL	2018	CW	114	114	60	6.840	LZ3TL
108	EA5ITT	2018	CW	127	127	53	6.731	
109	UR5AW	2018	CW	118	118	57	6.726	UR5AW
110	RX3VF	2018	CW	122	122	55	6.710	RX3VF

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
111	SV8/HB9FIH	2018	CW	131	131	51	6.681	
112	DL3DRN	2018	CW	110	110	60	6.600	DL3DRN
113	DJ3XD	2018	CW	114	114	57	6.498	DJ3XD
114	IS0/OE2LCM	2018	CW	120	120	54	6.480	OE2LCM
115	HA2MN	2018	CW	113	113	57	6.441	
116	UC5D	2018	CW	98	98	65	6.370	UC5D
117	LZ2PS	2018	CW	166	166	38	6.308	LZ2PS
118	UA6GO/MM	2018	CW	119	119	52	6.188	UA6GO/MM
119	DL8CO	2018	CW	114	114	54	6.156	
120	UT1WW	2018	CW	103	103	59	6.077	
121	YU5T	2018	CW	108	108	56	6.048	
122	DH2URF	2018	CW	108	108	55	5.940	
123	DL1DQJ	2018	CW	106	106	56	5.936	
124	IU6AIG	2018	CW	102	102	58	5.916	
125	UR8GX	2018	CW	98	98	60	5.880	UR8GX
126	R7AC	2018	CW	103	103	57	5.871	
127	PA0RHA	2018	CW	102	102	57	5.814	PA0RHA
128	DM6WAN	2018	CW	100	100	57	5.700	DM6WAN
129	RT7C	2018	CW	108	108	52	5.616	RT7C
130	SP2FAV	2018	CW	112	112	50	5.600	SP2FAV
131	DL0GE/P	2018	CW	97	97	57	5.529	DF7JC
132	OK2GU	2018	CW	95	95	58	5.510	
133	UR4LIN	2018	CW	105	105	52	5.460	
134	UT5NR	2018	CW	103	103	53	5.459	UT5NR
135	DL3KWR	2018	CW	107	107	51	5.457	
136	DL3KWF	2018	CW	99	99	55	5.445	
137	OK1DXW	2018	CW	94	94	57	5.358	OK1DXW
138	R3PIQ	2018	CW	105	105	51	5.355	R3PIQ
139	LZ5B	2018	CW	106	106	50	5.300	LZ7DP
140	PA0TCA	2018	CW	101	101	52	5.252	PA0TCA
141	DL6GCE	2018	CW	99	99	53	5.247	DL6GCE
142	RU3XY	2018	CW	90	90	58	5.220	RU3XY
143	R5FP	2018	CW	100	100	51	5.100	R5FP
144	UT7HM	2018	CW	94	94	54	5.076	UT7HM
145	DL3TC	2018	CW	118	118	43	5.074	
146	DL4DRW	2018	CW	94	94	53	4.982	DL4DRW
147	LY1DZ	2018	CW	134	134	37	4.958	LY1DZ
148	M0IHT	2018	CW	100	100	49	4.900	M0IHT
149	UY5TE	2018	CW	102	102	48	4.896	
150	OK2BJK	2018	CW	103	103	47	4.841	
151	DL6RAI	2018	CW	94	94	51	4.794	
152	YL2EM	2018	CW	101	101	47	4.747	YL2EM

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
153	LY2BAA	2018	CW	101	101	47	4.747	LY2BAA
154	DJ3TU	2018	CW	84	84	54	4.536	DJ3TU
155	DJ0YI	2018	CW	98	98	46	4.508	DJ0YI
156	EA5/R3AR	2018	CW	89	89	50	4.450	
157	UR7VA	2018	CW	101	101	44	4.444	
158	F6JOE	2018	CW	92	92	48	4.416	
159	IT9CKA	2018	CW	107	107	40	4.280	
160	E78CB	2018	CW	87	87	49	4.263	
161	F6GCI	2018	CW	86	86	49	4.214	
162	RV3VR	2018	CW	99	99	42	4.158	RV3VR
163	HA5CRT	2018	CW	86	86	48	4.128	HA5CRT
164	UA4WJ	2018	CW	81	81	50	4.050	
165	IK0OKY	2018	CW	109	109	37	4.033	
166	PA0RBA	2018	CW	85	85	47	3.995	PA0RBA
167	R7KU	2018	CW	113	113	35	3.955	R7KU
168	YO9HG	2018	CW	84	84	45	3.780	YO9HG
169	EW8G	2018	CW	71	71	52	3.692	EW8G
170	E73RB	2018	CW	83	83	44	3.652	
171	F1VEV	2018	CW	76	76	48	3.648	F1VEV
172	OK2QA	2018	CW	104	104	35	3.640	OK2QA
173	HA8EN	2018	CW	103	103	35	3.605	HA8EN
174	DK2FG	2018	CW	102	102	35	3.570	DK2FG
175	OM7LW	2018	CW	101	101	35	3.535	
176	IK6VXO	2018	CW	80	80	44	3.520	
177	IW1CHX	2018	CW	78	78	45	3.510	
178	G3YEU	2018	CW	68	68	51	3.468	G3YEU
179	OK8KM	2018	CW	80	80	43	3.440	OK8KM
180	R1LN	2018	CW	71	71	48	3.408	
181	DK5ZX	2018	CW	77	77	43	3.311	DK5ZX
182	UA3THY	2018	CW	101	101	32	3.232	UA3THY
183	DL6SRD	2018	CW	68	68	47	3.196	
184	RW4NW	2018	CW	71	71	45	3.195	
185	EU6AA	2018	CW	77	77	41	3.157	
186	DF6RI	2018	CW	72	72	42	3.024	
187	PA0CT	2018	CW	75	75	38	2.850	PA0CT
188	G4TGJ	2018	CW	62	62	44	2.728	G4TGJ
189	EU4U	2018	CW	73	73	37	2.701	
190	IZ6BXQ	2018	CW	64	64	41	2.624	
191	IK2NUX	2018	CW	83	83	31	2.573	
192	DL2VM	2018	CW	64	64	40	2.560	
193	DL9GMC	2018	CW	67	67	37	2.479	DL9GMC
194	DL6UHA	2018	CW	79	79	31	2.449	DL6UHA

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
195	F5MA	2018	CW	66	66	37	2.442	
196	PA3DBS	2018	CW	67	67	36	2.412	PA3DBS
197	I2AZ	2018	CW	80	80	30	2.400	
198	E74UK	2018	CW	59	59	40	2.360	E74UK
199	OK2CLL	2018	CW	65	65	36	2.340	OK2CLL
200	DF1GRA	2018	CW	56	56	41	2.296	DF1GRA
201	DL1VJL	2018	CW	74	74	31	2.294	DL1VJL
202	F5PAL	2018	CW	77	77	29	2.233	F5PAL
203	UT7MR	2018	CW	58	58	38	2.204	
204	IK2UEX	2018	CW	65	65	33	2.145	
205	SP9DUX	2018	CW	54	54	38	2.052	SP9DUX
206	R4HA	2018	CW	62	62	33	2.046	R4HA
207	UR3VJC	2018	CW	56	56	36	2.016	HELUDKO DMITRIY
208	DL9SAS/P	2018	CW	55	55	35	1.925	
209	UA2FL	2018	CW	52	52	36	1.872	UA2FL
210	UA1AUW	2018	CW	52	52	36	1.872	
211	LZ1KZ	2018	CW	50	50	36	1.800	LZ1KZ
212	OK2BFN	2018	CW	50	50	34	1.700	
213	DL1RTS	2018	CW	51	51	33	1.683	
214	YO6DBL	2018	CW	52	52	32	1.664	YO6DBL
215	DK3YD	2018	CW	50	50	33	1.650	
216	OR2A	2018	CW	63	63	26	1.638	ON1DX
217	PE1HWO	2018	CW	52	52	31	1.612	
218	OM4ANO/P	2018	CW	50	50	29	1.450	OM4ANO
219	HA5CQZ	2018	CW	43	43	33	1.419	
220	DL8UKW	2018	CW	53	53	26	1.378	
221	IK2QIK	2018	CW	55	55	25	1.375	
222	DL3KUD	2018	CW	59	59	23	1.357	DL3KUD
223	SV1CEI	2018	CW	48	48	28	1.344	
224	YL2BJ	2018	CW	50	50	26	1.300	
225	ON4CT	2018	CW	40	40	32	1.280	ON4CT
226	DL1THB	2018	CW	55	55	23	1.265	
227	RM1F	2018	CW	50	50	25	1.250	
228	OK1HCG	2018	CW	51	51	24	1.224	
229	EW2EO	2018	CW	46	46	26	1.196	EW2EO
230	US0UX	2018	CW	39	39	30	1.170	US0UX
231	RV1AQ	2018	CW	41	41	28	1.148	
232	UA4CNJ	2018	CW	41	41	27	1.107	
233	S52WD	2018	CW	41	41	27	1.107	S52WD
234	PA3JD	2018	CW	44	44	25	1.100	PA3JD
235	DL4JLM/P	2018	CW	43	43	25	1.075	
236	UB4W	2018	CW	40	40	26	1.040	FILIPPOV DMITRII

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
237	YO4BEX	2018	CW	43	43	24	1.032	
238	HA9TA	2018	CW	41	41	24	984	HA9TA
239	DL7LX	2018	CW	34	34	27	918	DL7LX
240	YU5W	2018	CW	40	40	22	880	
241	UA3YDI	2018	CW	34	34	25	850	
242	I5YKQ	2018	CW	37	37	21	777	
243	RA7R	2018	CW	37	37	20	740	RA7R
244	PD7CJT	2018	CW	39	39	18	702	PD7CJT
245	IK2AUK	2018	CW	28	28	23	644	IK2AUK
246	DA3T	2018	CW	29	29	22	638	DA3T
247	DF9YC	2018	CW	30	30	21	630	
248	RV3MR	2018	CW	28	28	22	616	RV3MR
249	F6BVY	2018	CW	32	32	18	576	F6BVY
250	IZ3KMY	2018	CW	28	28	20	560	
251	UG3G	2018	CW	31	31	18	558	UG3G
252	DL3RDM	2018	CW	24	24	22	528	
253	PA0MIR	2018	CW	29	29	18	522	PA0MIR
254	SP7QO	2018	CW	26	26	20	520	
255	PA1CX	2018	CW	27	27	18	486	PA1CX
256	RV3ZN	2018	CW	23	23	21	483	RV3ZN
257	OE1EBC	2018	CW	25	25	19	475	OE1EBC
258	RK1F	2018	CW	27	27	17	459	
259	G4ETS	2018	CW	24	24	19	456	G4ETS
260	SP9KJU	2018	CW	28	28	16	448	SP9MDY
261	R6CW	2018	CW	25	25	17	425	R6CW
262	DL6OOA	2018	CW	23	23	18	414	
263	DL1LSW	2018	CW	23	23	16	368	
264	OM2JU/P	2018	CW	24	24	15	360	
265	DL5HP	2018	CW	21	21	17	357	
266	OE9WGI	2018	CW	20	20	17	340	
267	Z33ST	2018	CW	21	21	16	336	
268	G0SAC	2018	CW	18	18	17	306	G4WGE
269	YL2LW	2018	CW	26	26	11	286	YL2LW
270	YO9CWY	2018	CW	21	21	13	273	YO9CWY
271	G4NXG/M	2018	CW	19	19	14	266	
272	DL4JWU	2018	CW	20	20	13	260	DL4JWU
273	OK2SWD	2018	CW	19	19	13	247	OK2SWD
274	IW1CBG	2018	CW	18	18	13	234	IW1CBG
275	SQ5STS	2018	CW	18	18	12	216	SQ5STS
276	IK4XQT	2018	CW	16	16	13	208	
277	DL3DUE	2018	CW	17	17	12	204	DL3DUE
278	DL2ANM	2018	CW	15	15	13	195	DL2ANM

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
279	DH7TS	2018	CW	13	13	11	143	
280	UT5PY	2018	CW	14	14	10	140	UT5PY
281	HB9GKM	2018	CW	14	14	10	140	
282	F8OOI	2018	CW	12	12	11	132	F8OOI
283	DL1TSM	2018	CW	13	13	10	130	
284	RZ2A	2018	CW	11	11	11	121	RZ2A
285	YO4SI	2018	CW	11	11	10	110	YO4SI
286	DL9ZP	2018	CW	10	10	8	80	DL9ZP
287	IK5OJB	2018	CW	10	10	7	70	
288	HB9CPS	2018	CW	7	7	7	49	HB9CPS
289	DL9ZOG	2018	CW	7	7	7	49	DL9ZOG
290	DM5JBN	2018	CW	7	7	5	35	
291	DO7ES	2018	CW	3	3	3	9	
292	DL1AOB	2018	CW	2	2	2	4	DL1AOB
293	EI3CTB	2018	CW	0	0	0	0	

SINGLE OPERATOR ALL BAND QRP POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UT8AS	2018	CW	284	284	97	27.548	
2	YO9AGI	2018	CW	234	234	91	21.294	YO9AGI
3	DL8MBS	2018	CW	238	238	85	20.230	DL8MBS
4	OK2SLS	2018	CW	131	131	70	9.170	OK2SLS
5	DM2DZM	2018	CW	128	128	68	8.704	DM2DZM
6	IZ4OSH	2018	CW	115	115	73	8.395	IZ4OSH
7	F6FTB	2018	CW	131	131	57	7.467	F6FTB
8	RW3AI	2018	CW	115	115	60	6.900	
9	ON7CC	2018	CW	104	104	65	6.760	ON7CC
10	UT5EOX	2018	CW	115	115	50	5.750	UT5EOX
11	LZ2RS	2018	CW	112	112	47	5.264	LZ2RS
12	LY5G	2018	CW	99	99	53	5.247	
13	PA9CW	2018	CW	93	93	51	4.743	PA9CW
14	PE2K	2018	CW	95	95	44	4.180	PE2K
15	LZ1VKD	2018	CW	104	104	38	3.952	LZ1VKD
16	LY3G	2018	CW	77	77	48	3.696	LY3G
17	DL6UKL	2018	CW	84	84	44	3.696	
18	YO4AAC	2018	CW	107	107	33	3.531	YO4AAC
19	HA5BA	2018	CW	78	78	40	3.120	
20	R6FY	2018	CW	67	67	43	2.881	R6FY
21	F6HHR	2018	CW	62	62	43	2.666	
22	DL2LFH	2018	CW	57	57	41	2.337	DL2LFH
23	YL3FW	2018	CW	73	73	32	2.336	YL3FW
24	F4HPZ	2018	CW	66	66	35	2.310	

SINGLE OPERATOR ALL BAND QRP POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
25	DL3HQN	2018	CW	60	60	36	2.160	DL3HQN
26	G4OZG	2018	CW	52	52	40	2.080	G4OZG
27	OK2BLD	2018	CW	59	59	35	2.065	OK2BLD
28	UA3PP	2018	CW	63	63	30	1.890	UA3PP
29	YO4TL	2018	CW	51	51	34	1.734	
30	RU6MO	2018	CW	48	48	31	1.488	RU6MO
31	PA0ZAV	2018	CW	50	50	26	1.300	PA0ZAV
32	RN4AO	2018	CW	40	40	17	680	
33	IW3ILM	2018	CW	35	35	18	630	IW3ILM
34	DJ3GE	2018	CW	31	31	18	558	DJ3GE
35	YO6EX	2018	CW	29	29	18	522	YO6EX
36	IZ0FVD	2018	CW	30	30	17	510	
37	UB1AHY	2018	CW	29	29	16	464	
38	SQ3SWF	2018	CW	27	27	16	432	
39	RA3WUG	2018	CW	23	23	18	414	RA3WUG
40	US1UU	2018	CW	25	25	16	400	
41	IV3ICH	2018	CW	21	21	17	357	
42	UA1CEG	2018	CW	15	15	10	150	UA1CEG
43	IK2CFD	2018	CW	14	14	10	140	IK2CFD
44	UR5KBP	2018	CW	8	8	8	64	
45	DQ2T	2018	CW	8	8	7	56	DK4LL
46	DK7OG	2018	CW	8	8	7	56	DK7OG
47	ON2AD	2018	CW	6	6	5	30	ON2AD
48	LZ1MC	2018	CW	5	5	5	25	LZ1MC

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UT4U	2018	CW	564	564	145	81.780	UT4U
2	I2WIJ	2018	CW	512	512	140	71.680	
3	UA4S	2018	CW	493	493	124	61.132	RU4SU
4	YL3CW	2018	CW	419	419	138	57.822	
5	UY5VA	2018	CW	432	432	126	54.432	
6	YO9HP	2018	CW	402	402	129	51.858	YO9HP
7	RL4A	2018	CW	418	418	124	51.832	
8	HB9DQL	2018	CW	404	404	126	50.904	HB9DQL
9	YQ6A	2018	CW	382	382	132	50.424	YO6BHN
10	IZ3SQW	2018	CW	371	371	129	47.859	
11	SP2EWQ	2018	CW	378	378	122	46.116	SP2EWQ
12	EU8U	2018	CW	387	387	119	46.053	
13	DL6KVA	2018	CW	363	363	125	45.375	DL6KVA
14	EI7M	2018	CW	349	349	118	41.182	G0CKV
15	G3TXF	2018	CW	363	363	111	40.293	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER						- EUROPE CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
16	S53M	2018	CW	332	332	117	38.844	S51FB
17	R6CC	2018	CW	348	348	111	38.628	
18	US2YW	2018	CW	335	335	113	37.855	US2YW
19	DL5AXX	2018	CW	306	306	121	37.026	
20	SP4Z	2018	CW	296	296	123	36.408	
21	SV1ENG	2018	CW	329	329	106	34.874	SV1ENG
22	F6AUS	2018	CW	305	305	113	34.465	
23	R4BZ	2018	CW	315	315	106	33.390	R4BZ
24	DL1NKS	2018	CW	302	302	105	31.710	DL1NKS
25	DK1WI	2018	CW	316	316	99	31.284	
26	LZ1QZ	2018	CW	267	267	117	31.239	LZ1QZ
27	9A1CFR	2018	CW	289	289	108	31.212	9A2NO
28	PA3EVY	2018	CW	283	283	109	30.847	PA3EVY
29	SP9WZJ	2018	CW	281	281	109	30.629	SP9WZJ
30	LY5W	2018	CW	263	263	115	30.245	LY5W
31	S57DX	2018	CW	273	273	106	28.938	S57DX
32	SQ8N	2018	CW	269	269	107	28.783	SQ8N
33	OR3A	2018	CW	251	251	112	28.112	ON6CC
34	LZ3FN	2018	CW	225	225	119	26.775	LZ3FN
35	RK3AW	2018	CW	286	286	89	25.454	
36	DL3DW	2018	CW	251	251	101	25.351	DL3DW
37	9A7Y	2018	CW	234	234	102	23.868	9A7Y
38	LY2J	2018	CW	255	255	93	23.715	
39	US7IY	2018	CW	245	245	93	22.785	
40	LZ1QN	2018	CW	226	226	98	22.148	LZ1QN
41	RY7G	2018	CW	295	295	74	21.830	RY7G
42	F6HDI	2018	CW	231	231	94	21.714	F6HDI
43	EI5KF	2018	CW	214	214	98	20.972	EI5KF
44	R1DX	2018	CW	193	193	107	20.651	R1DX
45	UR7GO	2018	CW	244	244	78	19.032	UR7GO
46	R4HC	2018	CW	165	165	106	17.490	R4HC
47	R7DA	2018	CW	176	176	99	17.424	
48	DJ2QV	2018	CW	179	179	97	17.363	
49	IK2EGL	2018	CW	232	232	73	16.936	IK2EGL
50	DL1DTL	2018	CW	180	180	90	16.200	KLAUS VOIGT
51	9A8CW	2018	CW	225	225	71	15.975	9A8CW
52	RV3FF	2018	CW	215	215	74	15.910	RV3FF
53	SV1JG	2018	CW	167	167	87	14.529	SV1JG
54	EA6FO	2018	CW	156	156	92	14.352	EA3AIR
55	I3VJW	2018	CW	142	142	81	11.502	I3VJW
56	DL5JQ	2018	CW	140	140	81	11.340	
57	RW3XZ	2018	CW	155	155	68	10.540	RW3XZ

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER						- EUROPE CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
58	HA8TP	2018	CW	164	164	63	10.332	HA8TP
59	RL4F	2018	CW	155	155	64	9.920	
60	PA5WT	2018	CW	144	144	64	9.216	PA5WT
61	G4RCG	2018	CW	139	139	60	8.340	G4RCG
62	RO3G	2018	CW	117	117	68	7.956	RO3G
63	I0WBX	2018	CW	129	129	55	7.095	I0WBX
64	DK7MD	2018	CW	114	114	61	6.954	DK7MD
65	YL2IP	2018	CW	106	106	63	6.678	YL2IP
66	EA5FIV	2018	CW	146	146	41	5.986	
67	F8DFP	2018	CW	102	102	58	5.916	F8DFP
68	RM4N	2018	CW	100	100	59	5.900	RM4N
69	G0IBN	2018	CW	101	101	55	5.555	G0IBN
70	YL5T	2018	CW	100	100	53	5.300	YL5T
71	DL5ST	2018	CW	95	95	53	5.035	
72	DG9SEH	2018	CW	95	95	51	4.845	DG9SEH
73	UZ5ZU	2018	CW	101	101	46	4.646	
74	DJ4MH	2018	CW	86	86	45	3.870	
75	PA3GDD	2018	CW	74	74	48	3.552	PA3GDD
76	OE6MMD	2018	CW	70	70	43	3.010	OE6MMD
77	RA4L	2018	CW	91	91	33	3.003	RA4L
78	RA6DT	2018	CW	64	64	46	2.944	RA6DT
79	LZ3ZZ	2018	CW	86	86	34	2.924	LZ3ZZ
80	PA5N	2018	CW	73	73	38	2.774	PA5N
81	UI3A	2018	CW	69	69	34	2.346	UI3A
82	LZ4AE	2018	CW	65	65	30	1.950	LZ4AE
83	DK3RA	2018	CW	46	46	41	1.886	DK3RA
84	DL2OE	2018	CW	46	46	40	1.840	DL2OE
85	R5DT	2018	CW	63	63	29	1.827	R5DT
86	IK6QON	2018	CW	57	57	31	1.767	IK6QON
87	DJ9RR	2018	CW	56	56	30	1.680	DJ9RR
88	LZ6F	2018	CW	50	50	23	1.150	LZ6F
89	DL0XX	2018	CW	44	44	26	1.144	DJ2YE
90	UW3HM	2018	CW	23	23	23	529	UW3HM
91	LZ1HW	2018	CW	21	21	17	357	LZ1HW
92	DK3GG	2018	CW	12	12	12	144	
93	UR5EDX	2018	CW	13	13	9	117	UR5EDX
94	IT9VDQ	2018	CW	7	7	5	35	IT9VDQ

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER						- EUROPE CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	LY3BB	2018	CW	336	336	79	26.544	
2	SP2YWL	2018	CW	321	321	77	24.717	SP2FWC

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER						- EUROPE CW			
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS	
3	LY2SA	2018	CW	304	304	76	23.104	LY2SA	
4	LY2MM	2018	CW	293	293	76	22.268	LY2MM	
5	YL9T	2018	CW	268	268	76	20.368	YL9T	
6	UX1VT	2018	CW	261	261	73	19.053	UX1VT	
7	RT3T	2018	CW	253	253	75	18.975	RT3T	
8	YL2PJ	2018	CW	243	243	72	17.496	YL2PJ	
9	EU8F	2018	CW	208	208	68	14.144	EU8F	
10	LY2NY	2018	CW	204	204	69	14.076	LY2NY	
11	SP2MKT	2018	CW	194	194	71	13.774	SP2MKT	
12	LY2CO	2018	CW	189	189	71	13.419	LY2CO	
13	OK1MSP	2018	CW	199	199	64	12.736		
14	OK2SG	2018	CW	182	182	69	12.558	OK2SG	
15	ES0DJ	2018	CW	177	177	67	11.859	ES0DJ	
16	YL3GAZ	2018	CW	168	168	63	10.584	YL3GAZ	
17	R1AO	2018	CW	159	159	66	10.494		
18	UA1ANA	2018	CW	167	167	62	10.354	UA1ANA	
19	DF5EG	2018	CW	161	161	63	10.143		
20	PA0JED	2018	CW	148	148	67	9.916		
21	HA3GO	2018	CW	146	146	65	9.490		
22	ON5WL	2018	CW	147	147	59	8.673	ON5WL	
23	EV6Z	2018	CW	139	139	59	8.201		
24	DL5JAN	2018	CW	137	137	59	8.083	DL5JAN	
25	YL2TD	2018	CW	125	125	61	7.625	YL2TD	
26	SP2FVN	2018	CW	139	139	54	7.506	SP2FVN	
27	R1AT	2018	CW	133	133	55	7.315		
28	DF8AA	2018	CW	116	116	62	7.192		
29	EW1TO	2018	CW	117	117	59	6.903		
30	LY3CY	2018	CW	113	113	57	6.441	LY3CY	
31	UA5F	2018	CW	131	131	49	6.419	UA5F	
32	SP2KAC	2018	CW	120	120	51	6.120	SP2KAC	
33	SP2MHD	2018	CW	109	109	51	5.559	SP2MHD	
34	LY2MC	2018	CW	103	103	52	5.356	LY2MC	
35	SP3JUN	2018	CW	101	101	51	5.151	SP3JUN	
36	DL2ZA	2018	CW	99	99	51	5.049	DL2ZA	
37	OK1VK	2018	CW	127	127	37	4.699	EX OK1WWJ	
38	UT4EK	2018	CW	90	90	49	4.410	UT4EK	
39	LY2TS	2018	CW	110	110	36	3.960	LY2TS	
40	UT4UQ	2018	CW	88	88	42	3.696	UT4UQ	
41	UT5ECZ	2018	CW	78	78	47	3.666	UT5ECZ	
42	LY2F	2018	CW	101	101	33	3.333	LY2F	
43	SQ4NR	2018	CW	87	87	34	2.958	SQ4NR	
44	DL8WAA	2018	CW	89	89	33	2.937		

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER						- EUROPE CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
45	HB9TSW	2018	CW	61	61	43	2.623	
46	YL3BU	2018	CW	49	49	36	1.764	YL3BU
47	UA6AK	2018	CW	60	60	29	1.740	
48	DF6JC	2018	CW	56	56	17	952	
49	PA0M	2018	CW	50	50	19	950	PA0M
50	DL0GRH	2018	CW	39	39	24	936	DJ5NN
51	UT9EZ	2018	CW	30	30	18	540	UT9EZ
52	9A2GA	2018	CW	13	13	12	156	9A2GA

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER						- EUROPE CW		
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UA6CC	2018	CW	400	400	127	50.800	UA6CC
2	R7MM	2018	CW	410	410	120	49.200	R7MM
3	HA1AG	2018	CW	387	387	118	45.666	HA1AG
4	UR5LAM	2018	CW	397	397	109	43.273	UR5LAM
5	LZ7DX	2018	CW	353	353	113	39.889	LZ7DX
6	UT3EK	2018	CW	322	322	109	35.098	UT3EK
7	F4VSQ	2018	CW	306	306	111	33.966	SQ6MS
8	UW8SM	2018	CW	313	313	105	32.865	UW8SM
9	DJ1OJ	2018	CW	306	306	105	32.130	DJ1OJ
10	RK3P	2018	CW	304	304	104	31.616	RK3P
11	UY5ZZ	2018	CW	290	290	106	30.740	
12	EA2CW	2018	CW	304	304	98	29.792	EA2CW
13	R7CT	2018	CW	289	289	101	29.189	R7CT
14	RA3AN	2018	CW	267	267	106	28.302	RA3AN
15	LY4ZZ	2018	CW	294	294	95	27.930	LY2BMX
16	DL8DWW	2018	CW	257	257	104	26.728	DL8DWW
17	9A1AA	2018	CW	220	220	114	25.080	
18	DR7T	2018	CW	242	242	102	24.684	DF1DN
19	RN3S	2018	CW	243	243	98	23.814	
20	IN3FHE	2018	CW	241	241	98	23.618	
21	IZ8EFD	2018	CW	299	299	76	22.724	
22	UA6GF	2018	CW	302	302	75	22.650	UA6GF
23	UR7MZ	2018	CW	208	208	107	22.256	
24	UA6LCJ	2018	CW	258	258	86	22.188	UA6LCJ
25	IV3HAX	2018	CW	213	213	101	21.513	
26	UY5ZI	2018	CW	220	220	93	20.460	UY5ZI
27	UC4A	2018	CW	256	256	78	19.968	
28	OK4DZ	2018	CW	201	201	96	19.296	OK4DZ
29	EA3KU	2018	CW	233	233	82	19.106	EA3KU
30	LZ1ND	2018	CW	233	233	80	18.640	LZ1ND
31	DL1RNN	2018	CW	214	214	86	18.404	DL1RNN

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
32	DJ7A	2018	CW	219	219	82	17.958	DJ7AT
33	RW4WA	2018	CW	213	213	82	17.466	RW4WA
34	ES2QX	2018	CW	228	228	76	17.328	ES2QX
35	PA2A	2018	CW	193	193	89	17.177	PA2A
36	SV1BJW	2018	CW	207	207	82	16.974	SV1BJW
37	G3KNU	2018	CW	212	212	80	16.960	G3KNU
38	HB9CIC	2018	CW	217	217	77	16.709	HB9CIC
39	R3VL	2018	CW	194	194	83	16.102	R3VL
40	DL4ME	2018	CW	222	222	72	15.984	DL4ME
41	LY3B	2018	CW	227	227	69	15.663	LY3B
42	G3RIK	2018	CW	174	174	88	15.312	G3RIK
43	SP9TTG	2018	CW	189	189	80	15.120	SP9TTG
44	G3RLE	2018	CW	186	186	76	14.136	G3RLE
45	PA3GYK	2018	CW	176	176	79	13.904	PA3GYK
46	IZ8GNR	2018	CW	149	149	85	12.665	IZ8GNR
47	DK9IP	2018	CW	141	141	87	12.267	DK9IP
48	YO7CVL	2018	CW	161	161	75	12.075	YO7CVL
49	SP9LAS	2018	CW	142	142	82	11.644	SP9LAS
50	R7MY	2018	CW	176	176	66	11.616	R7MY
51	LY4L	2018	CW	166	166	69	11.454	
52	DJ3RA	2018	CW	156	156	72	11.232	DJ3RA
53	SP2MKI	2018	CW	161	161	69	11.109	SP2MKI
54	UR3QSW	2018	CW	146	146	73	10.658	UR3QSW
55	UR5UJ	2018	CW	145	145	72	10.440	
56	PC5Q	2018	CW	155	155	67	10.385	PC5Q
57	IK4OMU	2018	CW	136	136	75	10.200	IK4OMU
58	YL3GQ	2018	CW	157	157	63	9.891	YL3GQ
59	R4WT	2018	CW	142	142	69	9.798	R4WT
60	DL1DQW	2018	CW	120	120	79	9.480	DL1DQW
61	HB9BUN	2018	CW	123	123	76	9.348	HB9BUN
62	LY2NZ	2018	CW	148	148	61	9.028	LY2NZ
63	DF1MM	2018	CW	155	155	58	8.990	DF1MM
64	DJ3JD	2018	CW	124	124	72	8.928	DJ3JD
65	DA0T	2018	CW	149	149	59	8.791	DL8UD
66	DL2FCA	2018	CW	133	133	65	8.645	DL2FCA
67	RM3TO	2018	CW	122	122	69	8.418	RM3TO
68	DJ1YFK	2018	CW	136	136	60	8.160	DJ1YFK
69	IT9CHU	2018	CW	169	169	48	8.112	
70	RL3T	2018	CW	137	137	56	7.672	RL3T
71	UR3GU	2018	CW	125	125	54	6.750	UR3GU
72	DL1RTL	2018	CW	120	120	55	6.600	
73	IK0HBN	2018	CW	99	99	64	6.336	IK0HBN

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
74	UA6YH	2018	CW	162	162	39	6.318	UA6YH
75	LY5I	2018	CW	107	107	57	6.099	LY5I
76	UR7EC	2018	CW	96	96	63	6.048	UR7EC
77	HA7PO	2018	CW	107	107	56	5.992	HA7PO
78	IK2RLS	2018	CW	106	106	56	5.936	IK2RLS
79	YT2T	2018	CW	97	97	58	5.626	OU5A
80	DF3OL	2018	CW	105	105	52	5.460	DF3OL
81	DL3TU	2018	CW	99	99	54	5.346	DL3TU
82	SV1JFL	2018	CW	109	109	49	5.341	
83	PA1FNW	2018	CW	111	111	47	5.217	
84	UR4LTX	2018	CW	124	124	39	4.836	UR4LTX
85	DM3F	2018	CW	84	84	57	4.788	DH5FS
86	PG2AA	2018	CW	90	90	52	4.680	
87	M0DHP	2018	CW	95	95	49	4.655	M0DHP
88	Z35F	2018	CW	119	119	37	4.403	
89	3Z0X	2018	CW	77	77	57	4.389	SP5MXZ
90	EA1AOQ	2018	CW	91	91	46	4.186	EA1AOQ
91	YU2A	2018	CW	97	97	41	3.977	YU2A
92	DL1NEO	2018	CW	90	90	43	3.870	DL1NEO
93	PA0GRU	2018	CW	97	97	39	3.783	PA0GRU
94	PA3DAT	2018	CW	74	74	49	3.626	PA3DAT
95	DF4XF	2018	CW	82	82	44	3.608	
96	DM2RN	2018	CW	78	78	44	3.432	DM2RN
97	HF0DKI	2018	CW	71	71	48	3.408	HF0DKI
98	G4PVM	2018	CW	70	70	48	3.360	G4PVM
99	G3RTU	2018	CW	62	62	47	2.914	G3RTU
100	9A4WY	2018	CW	64	64	44	2.816	9A4WY
101	UT2DW	2018	CW	62	62	44	2.728	UT2DW
102	RN4HAB	2018	CW	66	66	41	2.706	RN4HAB
103	PA1LEX	2018	CW	70	70	37	2.590	PA1LEX
104	RU4LM	2018	CW	86	86	29	2.494	RU4LM
105	YL2NK	2018	CW	63	63	39	2.457	YL2NK
106	SQ9S	2018	CW	74	74	32	2.368	SQ9S
107	UA4FDL	2018	CW	57	57	37	2.109	UA4FDL
108	EI8JX	2018	CW	66	66	26	1.716	EI8JX
109	DK3GI	2018	CW	49	49	34	1.666	
110	LZ1OJ	2018	CW	45	45	35	1.575	LZ1OJ
111	IC8FBU	2018	CW	53	53	29	1.537	IC8FBU
112	SV2CLJ	2018	CW	49	49	29	1.421	SV2CLJ
113	PA7RA	2018	CW	45	45	30	1.350	PA7RA
114	DL5KW	2018	CW	44	44	30	1.320	DL5KW
115	R4WAB	2018	CW	47	47	27	1.269	

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
116	ON6LO	2018	CW	39	39	28	1.092	
117	F5BQU	2018	CW	42	42	26	1.092	F5BQU
118	RN1AO	2018	CW	44	44	24	1.056	RN1AO
119	IK2IKW	2018	CW	38	38	24	912	IK2IKW
120	R2ATC	2018	CW	35	35	23	805	R2ATC
121	OR4K	2018	CW	28	28	28	784	OR4K
122	HA7MF	2018	CW	42	42	17	714	HA7MF
123	EA1CS	2018	CW	30	30	18	540	EA1CS
124	F4VSE	2018	CW	28	28	19	532	F4VSE
125	HB9EAR	2018	CW	34	34	14	476	HB9EAR
126	PA3GEO	2018	CW	24	24	17	408	PA3GEO
127	EA3CEC	2018	CW	25	25	16	400	
128	IK5YJK	2018	CW	25	25	15	375	IK5YJK
129	RU6K	2018	CW	17	17	13	221	RU6K
130	PA0CMF	2018	CW	17	17	12	204	PA0CMF
131	E71CQ	2018	CW	15	15	11	165	E71CQ
132	F4GFT	2018	CW	9	9	7	63	F4GFT
133	RU5TT	2018	CW	8	8	5	40	UA3TW
134	IZ0UME	2018	CW	3	3	2	6	IZ0UME

SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - EUROPE CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RT4W	2018	CW	266	266	100	26.600	RT4W
2	MM3AWD	2018	CW	233	233	86	20.038	MM3AWD
3	RD3ARU	2018	CW	199	199	76	15.124	RD3ARU
4	OK2FD	2018	CW	164	164	81	13.284	OK2FD
5	LZ2AU	2018	CW	159	159	61	9.699	LZ2AU
6	RU6YJ	2018	CW	141	141	63	8.883	RU6YJ
7	DL1DXA	2018	CW	155	155	57	8.835	
8	OL4W	2018	CW	141	141	56	7.896	OK1IF
9	DD0VS	2018	CW	96	96	62	5.952	DD0VS
10	M4J	2018	CW	76	76	58	4.408	G0DVJ
11	LZ2AF	2018	CW	88	88	49	4.312	LZ2AF
12	LZ7H	2018	CW	83	83	48	3.984	LZ7H
13	HB9RB	2018	CW	73	73	46	3.358	
14	LZ1JZ	2018	CW	85	85	38	3.230	LZ1JZ/QRP
15	YO8BDW	2018	CW	64	64	33	2.112	YO8BDW
16	PA0VLA	2018	CW	49	49	29	1.421	PA0VLA
17	RA3DJ	2018	CW	39	39	24	936	
18	OM3WZ	2018	CW	30	30	23	690	
19	SP6EIY	2018	CW	32	32	21	672	SP6EIY
20	PE1FJN	2018	CW	26	26	17	442	PE1FJN

## SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - EUROPE CW

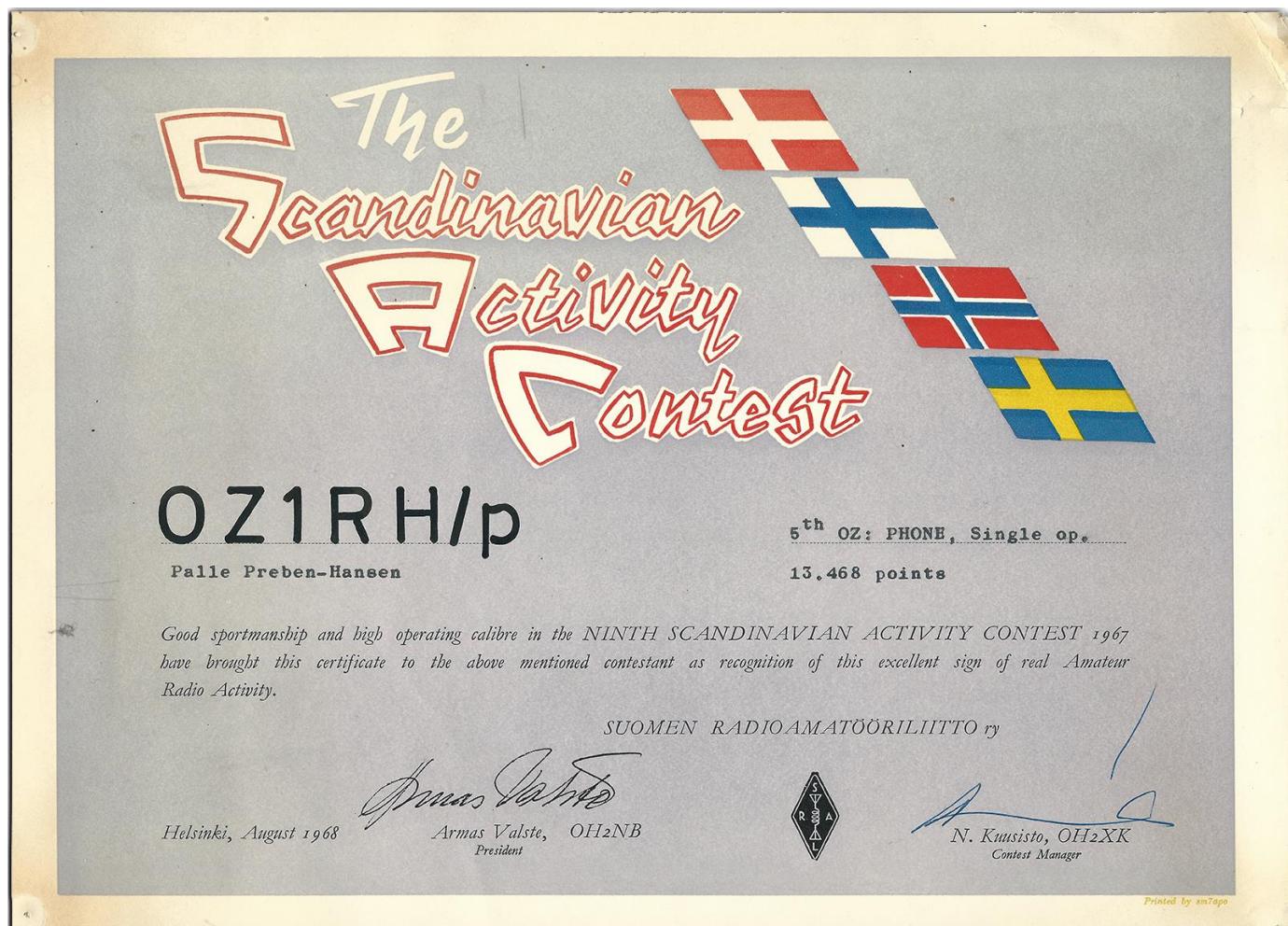
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
21	9A5YY	2018	CW	10	10	7	70	9A5YY

## MULTI OPERATOR SINGLE TRANSMITTER - EUROPE CW

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RM5A	2018	CW	509	509	142	72.278	RU4W, SM6LRR
2	UA4C	2018	CW	318	318	100	31.800	UA4C, RG4D, UA4CDL
3	YL1ZS	2018	CW	203	203	100	20.300	ALEKSANDR TOM
4	YP5A	2018	CW	249	249	79	19.671	YO5CBX YO5OLD
5	IQ2MG	2018	CW	162	162	85	13.770	IQ2MG
6	OK1OFM	2018	CW	171	171	69	11.799	OK4RQ, OK1HFM
7	DL0LA	2018	CW	100	100	52	5.200	

## CHECKLOGS - EUROPE CW

DK3PM, DL2BQV, DL3FCG, DL5CL, DL5MK, DL6RO, DL7USW/P, DL7VMM, DL8AWK, E72U, E74Y, E78ZX, EA1FA, EA2SN, EW6F, F3WT, F6GEU, G0BBO, GM0EUL, HA0LC, HA3HX, HA6NL, HB9IRF, HG1G, LY4T, LY5O, LY7M, LZ1UK, LZ5XQ, M5M, OK2BPU, OK2HFC, OK2PAY, OK2VX, ON2HF, OO9O, PA3I, PD7RB, R2LAC, RA1WZ, RA3FD, RU3TJ, RU3YAA, RW3VM, RZ3AMW, S58Q, S59ABC, SP4W, SV1PMQ, SV5/OH2LZC, SV9RNG, UA3LID, UA4AAC, US5EEK, UT4LW, UT7LW, UW1WU, YO2MNZ, YO3JOS, YO6FGZ, Z33B, ZA/Z61DX



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# Results SAC CW 2018 NORTH AMERICA



## SINGLE OPERATOR ALL BAND HIGH POWER - NORTH AMERICA CW

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	K8MFO	2018	CW	175	281	72	20.232	K8MFO
2	K3ZO	2018	CW	144	236	64	15.104	
3	W1XX	2018	CW	124	208	61	12.688	W1XX
4	N6AR	2018	CW	138	190	57	10.830	N6AR
5	K3UL	2018	CW	116	180	58	10.440	K3UL
6	K4RUM	2018	CW	102	158	50	7.900	K4RUM
7	K4BAI	2018	CW	104	138	45	6.210	K4BAI
8	W1FJ	2018	CW	91	135	45	6.075	W1FJ
9	K1IMI	2018	CW	61	121	43	5.203	K1IMI
10	K5ZD	2018	CW	76	98	41	4.018	K5ZD
11	W1TO	2018	CW	55	75	31	2.325	W1TO
12	K2MK	2018	CW	38	58	25	1.450	K2MK
13	N4QS	2018	CW	42	42	28	1.176	N4QS
14	N5ZO	2018	CW	33	47	25	1.175	N5ZO
15	N5RZ	2018	CW	11	11	8	88	N5RZ
16	KP4JRS	2018	CW	11	11	8	88	KP4JRS
17	WQ6X	2018	CW	0	0	0	0	WQ6X

## SINGLE OPERATOR ALL BAND LOW POWER - NORTH AMERICA CW

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	VE3DZ	2018	CW	130	178	53	9.434	VE3DZ
2	VE3VN	2018	CW	96	160	48	7.680	VE3VN
3	J35X	2018	CW	35	77	28	2.156	J35X
4	KK1W	2018	CW	29	59	25	1.475	KK1W
5	HI8A	2018	CW	32	56	25	1.400	HI8A
6	VE3TM	2018	CW	32	34	19	646	VE3TM
7	WA1HEW	2018	CW	16	18	11	198	WA1HEW
8	VE3AYR	2018	CW	17	17	11	187	VE3AYR
9	N1DC	2018	CW	13	17	11	187	N1DC
10	NG0T	2018	CW	15	15	11	165	NG0T
11	HP1AC	2018	CW	4	12	4	48	

## SINGLE OPERATOR ALL BAND QRP POWER - NORTH AMERICA CW

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	K3TW	2018	CW	11	13	11	143	K3TW

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER						- NORTH AMERICA CW			
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS	
1	N2KW	2018	CW	243	423	87	36.801	N2KW	
2	KC1XX	2018	CW	226	374	87	32.538		
3	K5KG	2018	CW	132	242	66	15.972	K5KG	
4	AA7G	2018	CW	121	207	69	14.283	AA7G	
5	K2QMF	2018	CW	122	206	62	12.772	K2QMF	
6	K3WW	2018	CW	127	205	62	12.710	K3WW	
7	K1GQ	2018	CW	129	189	59	11.151	K1GQ @K1GQ	
8	VE1OP	2018	CW	142	198	56	11.088	VE1OP	
9	W3FV	2018	CW	101	181	60	10.860	W3FV	
10	K1ESE	2018	CW	135	187	56	10.472	K1ESE	
11	VE3UTT	2018	CW	104	178	57	10.146	VE3UTT	
12	K1AR	2018	CW	106	176	55	9.680		
13	N8BJQ	2018	CW	111	161	56	9.016	N8BJQ	
14	VO1MP	2018	CW	75	133	43	5.719	VO1MP	
15	K3MD	2018	CW	70	114	43	4.902	K3MD	
16	N4BP	2018	CW	107	107	36	3.852	N4BP	
17	K8AJS	2018	CW	87	99	38	3.762	K8AJS	
18	NK3Y	2018	CW	73	89	39	3.471	NK3Y	
19	N2WK	2018	CW	62	104	33	3.432	N2WK	
20	KR4F	2018	CW	63	89	38	3.382	KR4F	
21	K0KX	2018	CW	42	88	32	2.816	K0KX	
22	VE5MX	2018	CW	54	80	34	2.720	VE5MX	
23	N3RD	2018	CW	34	60	31	1.860	N3RD	
24	K2NV	2018	CW	43	51	29	1.479	K2NV	
25	K3WI	2018	CW	48	48	26	1.248	K3WI	
26	VA2WA	2018	CW	42	42	26	1.092	VA2WA	
27	K3IE	2018	CW	35	43	23	989	K3IE	
28	N3AM	2018	CW	20	60	15	900	N3AM	
29	WD5K	2018	CW	23	25	17	425	WD5K	
30	VE3VHB	2018	CW	12	26	12	312		
31	N4GG	2018	CW	9	27	9	243	N4GG	

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER						- NORTH AMERICA CW			
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS	
1	W3AKD	2018	CW	14	42	11	462	W3AKD	

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER						- NORTH AMERICA CW			
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS	
1	N3UA	2018	CW	43	67	32	2.144	N3UA	
2	VA2CZ	2018	CW	28	28	21	588	VA2CZ	
3	WA9LEY	2018	CW	16	24	16	384	WA9LEY	
4	V26K	2018	CW	12	36	10	360	V26K	

**SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - NORTH AMERICA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	K8ZT	2018	CW	19	19	14	266	K8ZT

**MULTI OPERATOR SINGLE TRANSMITTER - NORTH AMERICA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	N1SOH	2018	CW	71	99	40	3.960	N1SOH W1FM
2	W4AQL	2018	CW	9	25	8	200	W4AQL

**CHECKLOGS - NORTH AMERICA CW**

N2BZD, W1KM, W4AAW

**Results SAC CW 2018 OCEANIA****SINGLE OPERATOR ALL BAND HIGH POWER - OCEANIA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	ZL2AGY	2018	CW	42	118	25	2.950	ZL2AGY
2	ZM2B	2018	CW	33	99	18	1.782	ZM2B
3	VK7BO	2018	CW	8	24	8	192	
4	ZL2AIM	2018	CW	9	27	7	189	

**SINGLE OPERATOR ALL BAND LOW POWER - OCEANIA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	YC1ME	2018	CW	51	87	32	2.784	YC1ME

**SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - OCEANIA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	ZM4T	2018	CW	75	173	49	8.477	ZL3IO
2	ZL2IFB	2018	CW	41	117	28	3.276	ZL2IFB
3	VK3GK	2018	CW	24	44	15	660	VK3GK
4	VK5GR	2018	CW	10	30	7	210	VK5GR
5	VK2PN	2018	CW	1	3	1	3	VK2PN

**SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER - OCEANIA CW**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	ZL3PAH	2018	CW	25	75	20	1.500	ZL3PAH
2	YC2VOC	2018	CW	15	45	11	495	YC2VOC

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - OCEANIA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	YB1TIA	2018	CW	34	34	20	680	YB1TIA
2	YC6MYO	2018	CW	15	15	12	180	YC6MYO
3	YB6DE	2018	CW	6	12	6	72	YB6DE

## Results SAC CW 2018 SOUTH AMERICA



SINGLE OPERATOR ALL BAND LOW POWER - SOUTH AMERICA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PR7AX	2018	CW	26	78	18	1.404	PR7AX
2	PY4ARS	2018	CW	5	5	5	25	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - SOUTH AMERICA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PY4HO	2018	CW	87	127	47	5.969	PY4HO
2	PP5NY	2018	CW	26	78	19	1.482	PP5NY

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER - SOUTH AMERICA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	YV4ABR	2018	CW	11	33	11	363	YV4ABR

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SOUTH AMERICA CW								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PY1AX	2018	CW	19	27	17	459	PY1AX



## OZ1AA operating from DCA

First and foremost, a big thank you to OZ1ADL Jan and OZ1XJ Andrew as well as the entire team in Stjaer for the opportunity, again to test from one of Denmark's largest stations at the Danish Contest Academy.

Expectations were high before contest start, and although there are a handful of OH and OHØs in front of me in claimed scores, I am satisfied with the result.

The idea was to utilize the flexible antenna and filter system on the OZ5E to run dual arrows up on two different bands throughout the test. OZ7AM Alex had helped design an audio box that switches the sound in the headphones so when the radio A transmitter, you have the sound from Radio B in both ears if the other way



around. If no radio transmitter you have sound from one radio in each ear. OZ2I Henning has written an article on the principle at

<https://www.edr.dk/radiosport-videregaaende/> - it requires some practice, but you can advantageously use the simulator in the DX-LOG program to get an idea of how the principle works.

The two radios I used were the normal Yaesu FT-3000 in the DCA shack as well as Andrew's Flex 6700. I was excited how the Flex would work in a contest, and the overall impression is positive! The radio has a fantastic receiver. I moved the actual SDR box onto the table in the shack so CW Key and headphones are connected directly to the SDR and not to the Maestro. This avoids network delays. The only problem during the test was the QRM on the 40 meter band when I sent at 80 m. The noise was the worst when I had the 80 m 4 squad against the USA.

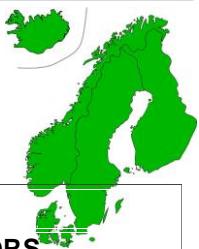
The conditions were nothing to write home about, and getting scraped 50 QSOs and some valuable multipliers at 15 meters was hard work.

On the claimed score on [www.sactest.net](http://www.sactest.net) I am number 5 after a number of OHs. Now I want to go into thinking box and consider how it is possible to beat the Finns :-)

73, Thomas OZ1AA



# Results SAC SSB 2018 SCANDINAVIA



SINGLE OPERATOR ALL BAND HIGH POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH8X	2018	SSB	1434	3.354	190	637.260	OH6UM
2	SG8X	2018	SSB	1241	2.900	189	548.100	SM5AQD
3	OG7A	2018	SSB	1249	2.765	170	470.050	OH6MW
4	OZ1AA	2018	SSB	1001	2.346	159	373.014	OZ1AA
5	OH2PM	2018	SSB	995	2.245	160	359.200	
6	SG0X	2018	SSB	1083	2.331	151	351.981	SM0MLZ
7	SK7K	2018	SSB	744	1.664	134	222.976	SM7LXV
8	OH1VR	2018	SSB	715	1.544	137	211.528	OH1VR
9	OZ4MD	2018	SSB	630	1.411	139	196.129	OZ4MD
10	OH2XX	2018	SSB	678	1.504	128	192.512	
11	LA8OM	2018	SSB	623	1.342	120	161.040	LA8OM
12	OH6AC	2018	SSB	587	1.223	124	151.652	OH6CS
13	TF2LL	2018	SSB	635	1.586	84	133.224	TF2LL
14	SE0X	2018	SSB	547	1.148	115	132.020	SM0MDG
15	OH2BLV	2018	SSB	492	1.072	113	121.136	OH2BLV
16	SM0T	2018	SSB	502	1.129	103	116.287	
17	OH1RX	2018	SSB	487	1.076	107	115.132	OH1RX
18	OH3JR	2018	SSB	470	994	105	104.370	
19	SA6U	2018	SSB	409	961	108	103.788	SM6LJU
20	OH7KBF	2018	SSB	432	896	100	89.600	OH7KBF
21	LA8HGA	2018	SSB	441	929	91	84.539	LA8HGA
22	SK2AU	2018	SSB	376	849	98	83.202	SM2ILF
23	OV9M	2018	SSB	423	883	92	81.236	DF9TM
24	SM4ONW	2018	SSB	334	703	88	61.864	SM4ONW
25	OH2FNR	2018	SSB	305	638	92	58.696	OH2FNR
26	SM0O	2018	SSB	271	579	91	52.689	SA0DIJ
27	SM6NT	2018	SSB	296	670	78	52.260	SM6NT
28	OH8WR	2018	SSB	368	795	57	45.315	OH8WR
29	TF3DT	2018	SSB	284	609	61	37.149	TF3DT
30	OH2LH	2018	SSB	201	421	73	30.733	OH2LH
31	SM7DQV	2018	SSB	166	355	77	27.335	SM7DQV
32	OZ3SM	2018	SSB	186	377	65	24.505	OZ3SM
33	OH3WW	2018	SSB	207	444	48	21.312	OH3WW
34	LC5C	2018	SSB	216	442	44	19.448	LA6KOA
35	LA7VK	2018	SSB	126	270	54	14.580	LA7VK
36	LA2US	2018	SSB	202	426	34	14.484	LA2US
37	SD6M	2018	SSB	136	282	47	13.254	SA6BGR
38	OH1CT	2018	SSB	96	200	53	10.600	OH1CT

SINGLE OPERATOR ALL BAND HIGH POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
39	OH5XO	2018	SSB	112	232	40	9.280	OH5XO
40	LC5W	2018	SSB	103	239	37	8.843	LC5W
41	OH1LAR	2018	SSB	79	167	46	7.682	OH1LAR
42	SM6FOV	2018	SSB	79	174	38	6.612	SM6FOV
43	SE0DX	2018	SSB	83	190	34	6.460	SM0UXX
44	SF6C	2018	SSB	77	156	36	5.616	SF6C
45	SB6W	2018	SSB	71	149	37	5.513	SA6RTJ
46	OH5NE	2018	SSB	68	144	36	5.184	OH5NE
47	SM6M	2018	SSB	67	169	19	3.211	
48	OH3KX	2018	SSB	48	99	28	2.772	OH3KX
49	SA0BMV	2018	SSB	55	115	24	2.760	SA0BMV
50	SM6UZ	2018	SSB	43	88	19	1.672	
51	OV1RR	2018	SSB	27	57	17	969	OZ1HHH

SINGLE OPERATOR ALL BAND LOW POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OY7O	2018	SSB	345	716	91	65.156	OZ7IS
2	SE4E	2018	SSB	325	687	84	57.708	SM4DQE
3	OG3P	2018	SSB	316	685	74	50.690	OH3P
4	LB4UH	2018	SSB	290	605	74	44.770	
5	LA5FBA	2018	SSB	291	604	73	44.092	LA5FBA
6	SK6BA	2018	SSB	248	518	83	42.994	SM6TZL
7	SG0M	2018	SSB	240	502	85	42.670	SA0AQ
8	OH6XY	2018	SSB	287	587	64	37.568	OH6XY
9	SM6FZO	2018	SSB	219	448	67	30.016	SM6FZO
10	OH3KQ	2018	SSB	204	419	68	28.492	OH3KQ
11	SM5W	2018	SSB	204	433	64	27.712	
12	SM6IQD	2018	SSB	168	356	71	25.276	
13	OZ1KKH	2018	SSB	171	370	61	22.570	OZ1KKH
14	SM5ALJ	2018	SSB	165	341	63	21.483	SM5ALJ
15	OH5KIZ	2018	SSB	143	307	60	18.420	OH5KIZ
16	SM5DXR	2018	SSB	142	298	55	16.390	SM5DXR
17	5P9R	2018	SSB	130	271	53	14.363	OZ5XN
18	SM5B	2018	SSB	126	272	51	13.872	SM5EMR
19	OH6UX	2018	SSB	116	246	56	13.776	OH6UX
20	LN7TTT	2018	SSB	149	305	45	13.725	LA5LJA
21	SM5NQB	2018	SSB	121	256	51	13.056	SM5NQB
22	SM7SLU	2018	SSB	127	274	47	12.878	SM7SLU
23	SM5ACQ	2018	SSB	121	251	51	12.801	SM5ACQ
24	OH6LW	2018	SSB	139	287	44	12.628	OH6LW
25	LC8P	2018	SSB	131	270	44	11.880	LC8P
26	OH1XY	2018	SSB	85	189	48	9.072	OH1XY

SINGLE OPERATOR ALL BAND LOW POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
27	OZ9V	2018	SSB	83	180	48	8.640	
28	OH2EPW	2018	SSB	99	210	40	8.400	OH2EPW
29	OH3BKL	2018	SSB	106	220	37	8.140	OH3BKL
30	OH2HZ	2018	SSB	99	211	37	7.807	OH2HZ
31	7S5S	2018	SSB	90	188	41	7.708	SM5CSS
32	OH2BXT	2018	SSB	84	172	44	7.568	OH2BXT
33	SM3KJA	2018	SSB	83	174	42	7.308	SM3KJA
34	OH1XFE	2018	SSB	85	177	41	7.257	OH1XFE
35	OH0RJ	2018	SSB	92	186	39	7.254	LARS
36	SF5O	2018	SSB	97	196	36	7.056	SF5O
37	OZ4NA	2018	SSB	93	190	36	6.840	OZ4NA
38	OH1SIC	2018	SSB	76	155	42	6.510	SM5SIC
39	LB3TI	2018	SSB	107	224	28	6.272	LB3TI
40	OH6JE	2018	SSB	75	159	36	5.724	OH6JE
41	OZ1ACB	2018	SSB	71	149	38	5.662	OZ1ACB
42	LC7D	2018	SSB	70	141	35	4.935	LC7D
43	OH8JIX	2018	SSB	69	148	33	4.884	
44	LA6M	2018	SSB	91	186	25	4.650	LA6GX
45	SM5EPO	2018	SSB	73	152	29	4.408	SM5EPO
46	LB1LG	2018	SSB	62	130	33	4.290	LB1LG
47	OH2MGA	2018	SSB	63	132	32	4.224	OH2MGA
48	SA5HUB	2018	SSB	59	121	31	3.751	SA5HUB
49	SM2S	2018	SSB	54	116	30	3.480	SM2S
50	SM7B	2018	SSB	53	113	30	3.390	SM7LAD
51	SA5X	2018	SSB	51	109	30	3.270	SM5TJH
52	LA2QJA	2018	SSB	61	124	26	3.224	LA2QJA
53	LA2WRA	2018	SSB	47	99	31	3.069	LA2WRA
54	SB7A	2018	SSB	48	101	30	3.030	SB7A
55	SM5LSM	2018	SSB	54	110	26	2.860	SM5LSM
56	LA2XNA	2018	SSB	43	90	30	2.700	LA2XNA
57	OZ1KZX	2018	SSB	48	96	27	2.592	OZ1KZX
58	OH7FDY	2018	SSB	48	104	23	2.392	OH7FDY
59	SM3XAX	2018	SSB	41	85	25	2.125	
60	SM0BYO	2018	SSB	37	78	27	2.106	SM0BYO
61	OH3LS	2018	SSB	42	85	24	2.040	OH3LS
62	OH2BGR	2018	SSB	37	78	25	1.950	
63	OH1TS	2018	SSB	40	88	22	1.936	OH1TS
64	SA4AVS	2018	SSB	36	75	24	1.800	SA4AVS
65	SE6R	2018	SSB	39	80	20	1.600	
66	SK4EA	2018	SSB	32	72	22	1.584	SM4IPC
67	SM3NFB	2018	SSB	35	75	19	1.425	
68	OH6ECM	2018	SSB	40	89	16	1.424	OH6ECM

SINGLE OPERATOR ALL BAND LOW POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
69	OH2ECG	2018	SSB	30	62	22	1.364	
70	OH1BKY	2018	SSB	31	62	20	1.240	OH1BKY
71	OZ4QX	2018	SSB	28	56	22	1.232	OZ4QX
72	OH7EBA	2018	SSB	29	61	19	1.159	
73	OZ7BQ	2018	SSB	32	64	18	1.152	OZ7BQ
74	SM4LRA	2018	SSB	27	55	19	1.045	SM4LRA
75	LA9DK	2018	SSB	32	64	15	960	LA9DK
76	LA8OKA	2018	SSB	23	46	14	644	LA8OKA
77	SM0Y	2018	SSB	22	45	12	540	SM0Y
78	LA3RNA	2018	SSB	20	41	12	492	LA3RNA
79	OH2LNH	2018	SSB	20	42	10	420	OH2LNH
80	LA7USA	2018	SSB	17	35	11	385	
81	LA8RTA	2018	SSB	21	42	9	378	
82	SM5TAH	2018	SSB	12	24	9	216	SM5TAH
83	OH3BNC	2018	SSB	10	20	8	160	OH3BNC
84	SM3HBV	2018	SSB	9	18	6	108	SM0HBV
85	SD6W	2018	SSB	7	14	5	70	SM6PVB
86	SM4WAV	2018	SSB	3	6	3	18	SM0WAV
87	OH2LRV	2018	SSB	1	2	1	2	

SINGLE OPERATOR ALL BAND QRP POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	8S3DX	2018	SSB	115	251	41	10.291	SM3LDP
2	OZ4PAT	2018	SSB	34	69	18	1.242	OZ4PAT
3	SD6F	2018	SSB	19	38	14	532	SM6JWR
4	LC4A	2018	SSB	8	16	8	128	LC4A
5	SA7GGO	2018	SSB	6	12	4	48	SA7GGO
6	LB0NH	2018	SSB	3	6	2	12	LB0NH

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OG6N	2018	SSB	1005	2.206	135	297.810	OH6NIO
2	OH5BM	2018	SSB	905	1.917	143	274.131	OH5BM
3	OZ4QX	2018	SSB	862	2.015	134	270.010	OH1NX
4	OG1D	2018	SSB	787	1.757	148	260.036	OH1JD
5	OH6DX	2018	SSB	827	1.784	138	246.192	OH6DX
6	OZ30EU	2018	SSB	722	1.590	137	217.830	OZ30EU
7	8S0C	2018	SSB	571	1.273	133	169.309	SM0MPV
8	OH5KW	2018	SSB	580	1.260	123	154.980	OH5KW
9	OZ2PBS	2018	SSB	543	1.301	99	128.799	OZ2PBS
10	OG4A	2018	SSB	502	1.058	111	117.438	OH2BAI

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
11	LA3BPA	2018	SSB	383	807	96	77.472	LA3BPA
12	SI3A	2018	SSB	357	776	88	68.288	SM3LIV
13	SI9AM	2018	SSB	290	601	71	42.671	SM3FJF
14	OH6RE	2018	SSB	242	523	59	30.857	OH6RE
15	SM6UQL	2018	SSB	241	530	55	29.150	
16	SE0N	2018	SSB	179	376	58	21.808	SM0TCZ
17	SE0P	2018	SSB	140	290	65	18.850	SA0BYP
18	OH3FM	2018	SSB	182	378	48	18.144	OH3FM
19	OH3AC	2018	SSB	164	351	50	17.550	OH3OQ
20	OH6NEV	2018	SSB	171	366	35	12.810	OH6NEV
21	OH1TD	2018	SSB	149	316	39	12.324	OH1TD
22	LA6UL	2018	SSB	108	226	39	8.814	LA6UL
23	LA4C	2018	SSB	75	156	40	6.240	LB4FH
24	SA2Z	2018	SSB	76	165	36	5.940	SM2Z
25	OH8GET	2018	SSB	67	152	37	5.624	OH8GET
26	OZ3MC	2018	SSB	75	154	34	5.236	OZ3MC
27	OZ1JVX	2018	SSB	62	127	20	2.540	
28	SE5P	2018	SSB	20	40	12	480	SA5BUM
29	SM5TNL	2018	SSB	20	41	10	410	SM5TNL
30	OH9GIT	2018	SSB	9	18	6	108	OH9GIT
31	LB6KC	2018	SSB	13	26	4	104	LB6KC

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH5Y	2018	SSB	325	677	89	60.253	OH5Y
2	LA7AK	2018	SSB	246	504	85	42.840	LA7AK
3	SB7W	2018	SSB	229	483	72	34.776	
4	OZ7D	2018	SSB	167	391	60	23.460	OZ6OM
5	OH4MVH	2018	SSB	188	392	55	21.560	OH4MVH
6	OZ1KVM	2018	SSB	145	310	65	20.150	OZ1KVM
7	SM6MVE	2018	SSB	139	289	57	16.473	SM6MVE
8	SE3E	2018	SSB	96	200	43	8.600	SA3AZK
9	LA9RY	2018	SSB	84	177	46	8.142	LA9RY
10	OZ1IVA	2018	SSB	94	190	35	6.650	OZ1IVA
11	SM8B	2018	SSB	89	188	35	6.580	SA0BVA
12	OZ5KSL	2018	SSB	82	167	38	6.346	OZ5KSL
13	SK6QA	2018	SSB	77	163	38	6.194	SA6AXR
14	SA6SKA	2018	SSB	81	167	35	5.845	SA6SKA
15	SI6T	2018	SSB	71	144	38	5.472	SM6LZQ
16	SM4/LB6UH	2018	SSB	68	147	35	5.145	LB6UH
17	SK3UB	2018	SSB	65	141	33	4.653	SM3PXO
18	LB1TI	2018	SSB	71	145	31	4.495	LB1TI

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
19	OH2KM	2018	SSB	62	137	26	3.562	OH2KM
20	LA2GKA	2018	SSB	58	116	27	3.132	LA2GKA
21	OZ4MU	2018	SSB	42	96	24	2.304	OZ4MU
22	OH2BAV	2018	SSB	31	65	15	975	
23	SM6TOL	2018	SSB	17	35	12	420	SM6TOL
24	OH8F	2018	SSB	11	22	7	154	OH8KVF

SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OG3X	2018	SSB	90	189	49	9.261	OH3KRH

SINGLE OPERATOR ALL BAND HIGH POWER TB-WIRES - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	8S0C	2018	SSB	571	1.273	133	169.309	SM0MPV
2	LA8OM	2018	SSB	623	1.342	120	161.040	LA8OM
3	OG4A	2018	SSB	502	1.058	111	117.438	OH2BAI
4	OH2FNR	2018	SSB	305	638	92	58.696	OH2FNR
5	SM0O	2018	SSB	271	579	91	52.689	SA0DIJ
6	SE0N	2018	SSB	179	376	58	21.808	SM0TCZ
7	LA2US	2018	SSB	202	426	34	14.484	LA2US
8	OH1LAR	2018	SSB	79	167	46	7.682	OH1LAR
9	OH8GET	2018	SSB	67	152	37	5.624	OH8GET
10	OZ1JVX	2018	SSB	62	127	20	2.540	

SINGLE OPERATOR ALL BAND HIGH POWER WIRE-ONLY - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH6AC	2018	SSB	587	1.223	124	151.652	OH6CS
2	OV9M	2018	SSB	423	883	92	81.236	DF9TM
3	OH2LH	2018	SSB	201	421	73	30.733	OH2LH
4	OH3WW	2018	SSB	207	444	48	21.312	OH3WW
5	OH3FM	2018	SSB	182	378	48	18.144	OH3FM

SINGLE OPERATOR ALL BAND HIGH POWER ROOKIE - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	SM6FOV	2018	SSB	79	174	38	6.612	SM6FOV

SINGLE OPERATOR ALL BAND LOW/QRP POWER TB-WIRES - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH5Y	2018	SSB	325	677	89	60.253	OH5Y
2	OG3P	2018	SSB	316	685	74	50.690	OH3P
3	LA5FBA	2018	SSB	291	604	73	44.092	LA5FBA

SINGLE OPERATOR ALL BAND LOW/QRP POWER TB-WIRES - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
4	LA7AK	2018	SSB	246	504	85	42.840	LA7AK
5	SG0M	2018	SSB	240	502	85	42.670	SA0AQQT
6	SB7W	2018	SSB	229	483	72	34.776	
7	OH3KQ	2018	SSB	204	419	68	28.492	OH3KQ
8	OH4MVH	2018	SSB	188	392	55	21.560	OH4MVH
9	SM6MVE	2018	SSB	139	289	57	16.473	SM6MVE
10	SM5B	2018	SSB	126	272	51	13.872	SM5EMR
11	SM5NQB	2018	SSB	121	256	51	13.056	SM5NQB
12	8S3DX	2018	SSB	115	251	41	10.291	SM3LDP
13	OH2HZ	2018	SSB	99	211	37	7.807	OH2HZ
14	OH2BXT	2018	SSB	84	172	44	7.568	OH2BXT
15	OZ4NA	2018	SSB	93	190	36	6.840	OZ4NA
16	SM8B	2018	SSB	89	188	35	6.580	SA0BVA
17	OZ1ACB	2018	SSB	71	149	38	5.662	OZ1ACB
18	SK3UB	2018	SSB	65	141	33	4.653	SM3PXO
19	SM2S	2018	SSB	54	116	30	3.480	SM2S
20	OH2BGR	2018	SSB	37	78	25	1.950	

SINGLE OPERATOR ALL BAND LOW/QRP POWER WIRE-ONLY - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OY7O	2018	SSB	345	716	91	65.156	OZ7IS
2	SE4E	2018	SSB	325	687	84	57.708	SM4DQE
3	SM6FZO	2018	SSB	219	448	67	30.016	SM6FZO
4	SM5ALJ	2018	SSB	165	341	63	21.483	SM5ALJ
5	5P9R	2018	SSB	130	271	53	14.363	OZ5XN
6	SE3E	2018	SSB	96	200	43	8.600	SA3AZK
7	OH2EPW	2018	SSB	99	210	40	8.400	OH2EPW
8	LA9RY	2018	SSB	84	177	46	8.142	LA9RY
9	SF5O	2018	SSB	97	196	36	7.056	SF5O
10	OZ5KSL	2018	SSB	82	167	38	6.346	OZ5KSL
11	SI6T	2018	SSB	71	144	38	5.472	SM6LZQ
12	OH8JIX	2018	SSB	69	148	33	4.884	
13	LB1LG	2018	SSB	62	130	33	4.290	LB1LG
14	SA5HUB	2018	SSB	59	121	31	3.751	SA5HUB
15	OH2KM	2018	SSB	62	137	26	3.562	OH2KM
16	OH7FDY	2018	SSB	48	104	23	2.392	OH7FDY
17	SM0BYO	2018	SSB	37	78	27	2.106	SM0BYO
18	OH2ECG	2018	SSB	30	62	22	1.364	
19	OZ4PAT	2018	SSB	34	69	18	1.242	OZ4PAT
20	OH7EBA	2018	SSB	29	61	19	1.159	
21	SM0Y	2018	SSB	22	45	12	540	SM0Y
22	OH2LNH	2018	SSB	20	42	10	420	OH2LNH

SINGLE OPERATOR ALL BAND LOW/QRP POWER WIRE-ONLY - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
23	LA7USA	2018	SSB	17	35	11	385	
24	OH3BNC	2018	SSB	10	20	8	160	OH3BNC
25	SM3HBV	2018	SSB	9	18	6	108	SM0HBV
26	SM4WAV	2018	SSB	3	6	3	18	SM0WAV
27	OH2LRV	2018	SSB	1	2	1	2	

SINGLE OPERATOR ALL BAND LOW/QRP POWER ROOKIE - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH6UX	2018	SSB	116	246	56	13.776	OH6UX
2	OH3BKL	2018	SSB	106	220	37	8.140	OH3BKL
3	SM4/LB6UH	2018	SSB	68	147	35	5.145	LB6UH
4	LB1TI	2018	SSB	71	145	31	4.495	LB1TI
5	OH1BKY	2018	SSB	31	62	20	1.240	OH1BKY
6	OH2BAV	2018	SSB	31	65	15	975	
7	SA7GGO	2018	SSB	6	12	4	48	SA7GGO
8	LB0NH	2018	SSB	3	6	2	12	LB0NH

SINGLE OPERATOR 80 METER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH2BAH	2018	SSB	181	370	34	12.580	OH2PQ
2	OG1N	2018	SSB	96	196	28	5.488	OH2TA
3	OH3MHA	2018	SSB	72	145	25	3.625	OH1ZAA

SINGLE OPERATOR 40 METER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH1Z	2018	SSB	671	1.413	66	93.258	OH1LEG
2	SK6AW	2018	SSB	600	1.245	59	73.455	SA6CBY
3	TF3T	2018	SSB	188	401	39	15.639	TF3T
4	OH1QX	2018	SSB	100	208	32	6.656	OH1ZAA
5	SM6Q	2018	SSB	98	197	25	4.925	SM6Q
6	OH5UQ	2018	SSB	28	58	14	812	
7	LA8FTA	2018	SSB	18	36	14	504	LA8FTA
8	OH6X	2018	SSB	18	36	12	432	
9	OH0FM	2018	SSB	16	32	7	224	OH0FM
10	SM6V	2018	SSB	9	18	7	126	SM6VAOO
11	SD1A	2018	SSB	4	8	3	24	SM1TDE
12	LB3RE	2018	SSB	1	2	1	2	LB3RE

SINGLE OPERATOR 20 METER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OG73X	2018	SSB	971	2.447	64	156.608	OH8LQ
2	OH2FB	2018	SSB	548	1.216	56	68.096	OH2FB
3	OZ11A	2018	SSB	426	1.054	53	55.862	OZ11A

SINGLE OPERATOR 20 METER		- SCANDINAVIA SSB						
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
4	OH2PQ	2018	SSB	355	839	49	41.111	OH2PQ
5	OH5BQ	2018	SSB	351	760	47	35.720	
6	OH4BCS	2018	SSB	314	673	50	33.650	OH1ZAA
7	LC1P	2018	SSB	311	664	44	29.216	LA1DSA
8	SF4D	2018	SSB	191	422	41	17.302	SM4LMV
9	LA7NFA	2018	SSB	138	307	37	11.359	LA7NFA
10	OH2KI	2018	SSB	144	316	34	10.744	
11	SM3EAE	2018	SSB	127	269	30	8.070	SM3EAE
12	SM6GYB	2018	SSB	96	220	28	6.160	SM6GYB
13	SM6C	2018	SSB	76	173	27	4.671	
14	SF7WT	2018	SSB	83	202	22	4.444	SM7WT
15	SA6BPD	2018	SSB	64	135	25	3.375	SA6BPD
16	OH6GAZ	2018	SSB	55	115	25	2.875	OH6GAZ
17	OH2LU	2018	SSB	54	117	21	2.457	OH2LU
18	SM6OPW	2018	SSB	58	118	19	2.242	
19	OH2FQV	2018	SSB	35	76	17	1.292	OH2FQV
20	SM4LWY	2018	SSB	35	71	12	852	SM4LWY
21	SG3O	2018	SSB	24	53	11	583	SM3AGO
22	OH2LIR	2018	SSB	19	41	10	410	
23	TF3DC	2018	SSB	15	33	12	396	
24	LN5O	2018	SSB	17	34	9	306	LN5O
25	SM5BMB	2018	SSB	13	27	10	270	SM5BMB
26	SM5CCT	2018	SSB	10	20	5	100	SM5CCT
27	OH3XZ	2018	SSB	7	16	5	80	
28	OH4KA	2018	SSB	2	4	1	4	OH4KA

SINGLE OPERATOR 15 METER		- SCANDINAVIA SSB						
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH2J	2018	SSB	75	173	25	4.325	OG55W
2	OH2BKX	2018	SSB	18	50	12	600	OH2BKX
3	OG7M	2018	SSB	28	46	10	460	OG7M
4	OH3BCX	2018	SSB	19	44	9	396	OH1ZAA
5	OH7MFO	2018	SSB	13	31	9	279	OH7MFO
6	SM6WYN	2018	SSB	6	18	5	90	

SINGLE OPERATOR 10 METER		- SCANDINAVIA SSB						
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH2MZA	2018	SSB	4	8	2	16	OH1ZAA
2	OH3RB	2018	SSB	3	6	2	12	

MULTI OPERATOR SINGLE TRANSMITTER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS

MULTI OPERATOR SINGLE TRANSMITTER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH0X	2018	SSB	1651	3.771	221	833.391	OH2BH OH2GEK OH2UA OH8NC OH2MM
2	OG60F	2018	SSB	1502	3.454	181	625.174	OH1NOA OH1TM
3	OH0V	2018	SSB	1213	2.865	174	498.510	OH4XX OH6LI
4	SK2T	2018	SSB	690	1.417	127	179.959	SM2MTR SA2RJO
5	SK0QO	2018	SSB	570	1.209	117	141.453	SM0IFP SM0DCD SM0DSG SM0DSF SM0NUE
6	SK5LW	2018	SSB	499	1.082	124	134.168	SM5ISM SM5PBT
7	SB3W	2018	SSB	560	1.195	111	132.645	SM3RAB SM3WMU
8	OI3V	2018	SSB	513	1.120	117	131.040	OH3KAV OH3BJL
9	OH6K	2018	SSB	540	1.148	97	111.356	OH6FSG OH6MSZ
10	OZ5ESB	2018	SSB	444	1.137	81	92.097	OZ1INN OZ4AFQ OZ1CWP OZ1GNG
11	SK5DB	2018	SSB	385	801	98	78.498	SA5JUS SM5XSH SA5DAG SM5SYO
12	SK5WB	2018	SSB	370	799	96	76.704	SM5NVF SM5NUZ SA5AIO SA5AIQ SM5WLW SM5PGY
13	SK0YT	2018	SSB	299	646	90	58.140	SM0HRP SA5ODJ SA0KIM OH1ESI OH2VT
14	LA1K	2018	SSB	224	466	47	21.902	LA3WUA LB6RH
15	SJ3A	2018	SSB	136	297	56	16.632	SM3GUJ SM3OMO
16	JW5X	2018	SSB	168	419	39	16.341	LA7XK LA9DL
17	SJ9WL	2018	SSB	141	284	55	15.620	DG7EE DJ4MF DL2JRM
18	LG5LG	2018	SSB	121	244	44	10.736	DG7EE DJ4MF DL2JRM
19	SK3JR	2018	SSB	68	141	37	5.217	SM3LVB SA3BKF
20	OZ6HR	2018	SSB	90	181	24	4.344	OZ6HR
21	OH5B	2018	SSB	61	125	33	4.125	OH5FVY OH5EIL
22	OH0Z	2018	SSB	5	13	5	65	OH1JT, OH6EI

MULTI OPERATOR MULTI TRANSMITTER - SCANDINAVIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	OH5Z	2018	SSB	1717	3.886	202	784.972	OH1WZ OH5CZ OH5KS OH5LF OH5TS
2	OH7K	2018	SSB	1379	3.128	170	531.760	OH7CW OH7FAE OH7MA OH7WP OH7XI
3	SK3W	2018	SSB	408	871	120	104.520	
4	LA4O	2018	SSB	453	935	89	83.215	LA7WRA LA7IJ LA3PK LA4GF LA8FTA

CHECKLOGS - SCANDINAVIA SSB	
LA2HFA, LA8CJ, LA9TY, OH8WW	



# Results SAC SSB 2018 AFRICA


**SINGLE OPERATOR ALL BAND HIGH POWER - AFRICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	EA8DED	2018	SSB	137	207	64	13.248	EA8DED

**SINGLE OPERATOR ALL BAND LOW POWER - AFRICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	5Z4BV	2018	SSB	15	37	14	518	5Z4BV
2	EA8ZT	2018	SSB	9	27	9	243	EA8ZT

**SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - AFRICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	6W1SU	2018	SSB	4	4	4	16	6W1SU

# Results SAC SSB 2018 ASIA


**SINGLE OPERATOR ALL BAND HIGH POWER - ASIA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RF9C	2018	SSB	301	563	82	46.166	RV9CBW
2	R8WF	2018	SSB	286	522	85	44.370	
3	R9AB	2018	SSB	91	149	40	5.960	R9AB
4	A61FK	2018	SSB	108	124	47	5.828	A61FK
5	RA9AAA	2018	SSB	109	123	40	4.920	
6	4X1VF	2018	SSB	59	65	35	2.275	4X1VF
7	R9CC	2018	SSB	48	72	29	2.088	R9CC
8	VU2YVK	2018	SSB	32	52	26	1.352	VU2YVK
9	UA9XMC	2018	SSB	54	54	25	1.350	UA9XMC
10	RM9T	2018	SSB	56	56	18	1.008	
11	RC9F	2018	SSB	46	46	21	966	RC9F
12	TA1API	2018	SSB	28	32	18	576	TA1API
13	JH0ILL	2018	SSB	19	21	10	210	JH0ILL
14	RW0UM	2018	SSB	13	13	9	117	RW0UM
15	RI0BC	2018	SSB	10	10	7	70	RW1AI
16	JS1NDM	2018	SSB	2	2	2	4	

SINGLE OPERATOR ALL BAND LOW POWER - ASIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	5B/UT5UT	2018	SSB	148	242	68	16.456	UT5UT
2	4X6DK	2018	SSB	157	237	63	14.931	4X6DK
3	UA9R	2018	SSB	158	226	58	13.108	
4	TA4RC	2018	SSB	101	189	64	12.096	
5	RX9CCJ	2018	SSB	96	110	36	3.960	
6	UN7ZAF	2018	SSB	50	92	29	2.668	UN7ZAF
7	UA9XF	2018	SSB	48	78	31	2.418	UA9XF
8	UA9URI	2018	SSB	69	69	33	2.277	
9	UA9SUV/8	2018	SSB	76	92	24	2.208	UA9SUV
10	JT1BV	2018	SSB	71	71	28	1.988	JT1BV
11	TA2BS	2018	SSB	61	65	24	1.560	
12	TA2XX	2018	SSB	37	45	21	945	
13	R9QQ	2018	SSB	34	34	17	578	
14	R9VK	2018	SSB	31	31	17	527	
15	TA4PR	2018	SSB	20	20	14	280	TA4PR
16	VU3ESV	2018	SSB	15	19	13	247	VU3ESV
17	5B4AOF	2018	SSB	16	16	13	208	5B4AOF
18	JJ0NSL	2018	SSB	14	14	9	126	
19	JE1RRK	2018	SSB	11	11	8	88	
20	A65CR	2018	SSB	8	8	7	56	A65CR
21	TA3EP	2018	SSB	7	7	7	49	
22	TA2LP	2018	SSB	4	12	3	36	TA2LP
23	VU3SIO	2018	SSB	4	4	4	16	
24	JP3MFV	2018	SSB	2	2	2	4	
25	TA2TR	2018	SSB	2	2	2	4	
26	VU3XIO	2018	SSB	2	2	2	4	
27	VU3OBO	2018	SSB	1	1	1	1	VU3OBO

SINGLE OPERATOR ALL BAND QRP POWER - ASIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UA0SBQ/P	2018	SSB	11	11	7	77	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - ASIA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UA9BA	2018	SSB	201	359	90	32.310	
2	UA9CTT	2018	SSB	105	123	35	4.305	UA9CTT
3	JA3AOP	2018	SSB	76	88	32	2.816	JA3AOP
4	A65DC	2018	SSB	40	42	27	1.134	A65DC
5	TA4CS	2018	SSB	23	69	16	1.104	TA4CS
6	JH4UTP	2018	SSB	24	28	12	336	JH4UTP

**SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER - ASIA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	JA6GMC	2018	SSB	4	12	4	48	

**SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - ASIA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	UA9CUA	2018	SSB	161	181	41	7.421	
2	UN8PT	2018	SSB	100	100	48	4.800	UN8PT
3	TA4/OH2KW	2018	SSB	65	87	41	3.567	OH2KW
4	RV9UCN	2018	SSB	68	68	34	2.312	

**MULTI OPERATOR SINGLE TRANSMITTER - ASIA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	JK2VOC	2018	SSB	8	8	7	56	JK2VOC

**CHECKLOGS - ASIA SSB**

4K6FO, JH2XQY, VU2DED

**5Q6EE operating from EDR HQ**

Workplace for OZ1I at the EDR HQ Station @JO55EJ

# Results SAC SSB 2018 EUROPE



SINGLE OPERATOR ALL BAND HIGH POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	I2PJA	2018	SSB	477	477	133	63.441	
2	UA3VFS	2018	SSB	291	291	112	32.592	
3	LX7I	2018	SSB	298	298	101	30.098	
4	M0MCV	2018	SSB	292	292	100	29.200	M0MCV
5	G3SWC	2018	SSB	302	302	96	28.992	G3SWC
6	R3GZ	2018	SSB	276	276	96	26.496	R3GZ
7	ON5GQ	2018	SSB	252	252	88	22.176	ON5GQ
8	YO3FFF	2018	SSB	264	264	83	21.912	YO3FFF
9	OK1HFP	2018	SSB	209	209	97	20.273	OK1HFP
10	I4XNN	2018	SSB	262	262	77	20.174	
11	US5D	2018	SSB	215	215	76	16.340	UT7DX
12	EA3HJO	2018	SSB	211	211	69	14.559	EA3HJO
13	Z62FB	2018	SSB	195	195	49	9.555	Z62FB
14	LZ1DQ	2018	SSB	149	149	64	9.536	LZ1DQ
15	YO3GNF	2018	SSB	102	102	49	4.998	YO3GNF
16	PA3GVQ	2018	SSB	92	92	52	4.784	PA3GVQ
17	F5PHY	2018	SSB	127	127	37	4.699	F5PHY
18	RW1F	2018	SSB	81	81	52	4.212	
19	RM7G	2018	SSB	68	68	40	2.720	RM7G
20	F4FNT	2018	SSB	68	68	39	2.652	
21	Z35W	2018	SSB	70	70	28	1.960	
22	OE100BKC	2018	SSB	52	52	28	1.456	
23	EA7AKK	2018	SSB	45	45	30	1.350	EA7AKK
24	RV3FF	2018	SSB	45	45	24	1.080	RV3FF
25	EI5KF	2018	SSB	37	37	27	999	EI5KF
26	MM2N	2018	SSB	38	38	23	874	MM0GPZ
27	EA4BQ	2018	SSB	41	41	21	861	
28	F1PNJ	2018	SSB	34	34	25	850	F1PNJ
29	US3LX	2018	SSB	35	35	23	805	
30	PA3ELQ	2018	SSB	39	39	18	702	PA3ELQ
31	OK2ABU	2018	SSB	37	37	18	666	
32	LY7Z	2018	SSB	29	29	21	609	
33	F5KEQ	2018	SSB	30	30	18	540	F5MYK
34	IK2IKW	2018	SSB	25	25	20	500	IK2IKW
35	DL1DTL	2018	SSB	24	24	20	480	KLAUS VOIGT
36	F5NBX	2018	SSB	22	22	18	396	
37	SP1JQJ	2018	SSB	28	28	12	336	SP1JQJ

SINGLE OPERATOR ALL BAND HIGH POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
38	DL1MP	2018	SSB	18	18	17	306	DL1MP
39	R2GB	2018	SSB	19	19	16	304	R2GB
40	SQ9IWI	2018	SSB	9	9	8	72	
41	G2Z	2018	SSB	6	6	5	30	G2Z
42	RA3NC	2018	SSB	3	3	3	9	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	EC7WA	2018	SSB	294	294	88	25.872	
2	OK2MBP	2018	SSB	240	240	101	24.240	
3	DG5MLA	2018	SSB	204	204	93	18.972	
4	YO2CJX	2018	SSB	195	195	86	16.770	
5	LY1SR	2018	SSB	223	223	73	16.279	
6	DM5B	2018	SSB	205	205	78	15.990	DG6IMR
7	IK1RGK	2018	SSB	221	221	69	15.249	
8	EU6DX	2018	SSB	163	163	84	13.692	
9	ER4LX	2018	SSB	156	156	82	12.792	
10	IK4OMO	2018	SSB	161	161	71	11.431	
11	RM7C	2018	SSB	178	178	62	11.036	
12	G0AJJ	2018	SSB	148	148	73	10.804	G0AJJ
13	DF4SR/P	2018	SSB	141	141	76	10.716	DF4SR
14	MU0GSY	2018	SSB	191	191	56	10.696	MU0GSY
15	IK4QJF	2018	SSB	175	175	60	10.500	
16	E73RB	2018	SSB	159	159	62	9.858	
17	SP4SHD	2018	SSB	133	133	69	9.177	SP4SHD
18	YL3AD	2018	SSB	138	138	63	8.694	YL3AD
19	LZ3SD	2018	SSB	136	136	62	8.432	LZ3SD
20	F6DRP	2018	SSB	171	171	48	8.208	F6DRP
21	EW8LM	2018	SSB	122	122	65	7.930	
22	HB9MXY	2018	SSB	123	123	64	7.872	
23	SP1V	2018	SSB	122	122	64	7.808	SP1QXK
24	IU4JIC	2018	SSB	132	132	55	7.260	
25	SP5DRE	2018	SSB	117	117	61	7.137	SP5DRE
26	IQ0RU	2018	SSB	124	124	57	7.068	IZ6DWH
27	GU0UVH	2018	SSB	115	115	61	7.015	GU0UVH
28	EA1DHB	2018	SSB	129	129	53	6.837	RICARDO
29	DH9DX/P	2018	SSB	120	120	54	6.480	
30	IK7RVY	2018	SSB	130	130	48	6.240	
31	EI3ENB	2018	SSB	100	100	62	6.200	EI3ENB
32	UX3HA	2018	SSB	100	100	61	6.100	
33	RV3VR	2018	SSB	103	103	55	5.665	RV3VR
34	DL2FQ	2018	SSB	103	103	55	5.665	LZ2FQ

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
35	R4FCJ	2018	SSB	94	94	60	5.640	R4FCJ
36	OL3E	2018	SSB	93	93	58	5.394	
37	PA2CVD	2018	SSB	103	103	49	5.047	PA2CVD
38	S57YK	2018	SSB	121	121	41	4.961	S57YK
39	PA7WW	2018	SSB	93	93	53	4.929	PA7WW
40	SP1FRC	2018	SSB	94	94	52	4.888	SP1FRC
41	OM6AT	2018	SSB	87	87	55	4.785	OM6AT
42	IW0HLZ	2018	SSB	79	79	53	4.187	
43	EC5EA	2018	SSB	98	98	42	4.116	
44	OK2SGY	2018	SSB	87	87	47	4.089	OK2SGY
45	IW1FRU	2018	SSB	111	111	36	3.996	IW1FRU
46	IK3XTV	2018	SSB	82	82	47	3.854	
47	IK1XPK	2018	SSB	106	106	36	3.816	
48	M0JND	2018	SSB	81	81	45	3.645	M0JND
49	LZ2FM	2018	SSB	84	84	43	3.612	
50	GM0AXY	2018	SSB	82	82	43	3.526	GM0AXY
51	RN4SC	2018	SSB	79	79	44	3.476	RN4SC
52	LZ2ZY	2018	SSB	77	77	45	3.465	LZ2ZY
53	UY3U	2018	SSB	109	109	31	3.379	
54	DL9HB	2018	SSB	81	81	39	3.159	
55	OK1DVA	2018	SSB	68	68	46	3.128	
56	OM4M	2018	SSB	95	95	32	3.040	OM4KK
57	EA3FUJ	2018	SSB	87	87	34	2.958	EA3FUJ
58	GM9C	2018	SSB	67	67	44	2.948	MM0GHM
59	YO7LDT	2018	SSB	67	67	44	2.948	YO7LDT
60	OR2A	2018	SSB	79	79	37	2.923	ON1DX
61	MI0OBC	2018	SSB	73	73	38	2.774	MI0OBC
62	M6VWX	2018	SSB	69	69	39	2.691	
63	OK1TFH	2018	SSB	62	62	41	2.542	OK1TFH
64	RA3VX	2018	SSB	58	58	43	2.494	RA3VX
65	SO100I	2018	SSB	61	61	39	2.379	SQ9NOS
66	OM8JP	2018	SSB	59	59	40	2.360	
67	SP5BUJ	2018	SSB	59	59	40	2.360	
68	S56AX	2018	SSB	60	60	38	2.280	S56AX
69	YO9HG	2018	SSB	59	59	38	2.242	YO9HG
70	R3LC	2018	SSB	71	71	31	2.201	R3LC
71	ON3ND	2018	SSB	62	62	34	2.108	
72	IK4JQQ	2018	SSB	62	62	34	2.108	
73	IU2JMZ	2018	SSB	55	55	38	2.090	
74	IT9OPR	2018	SSB	71	71	28	1.988	
75	DG7DBR	2018	SSB	58	58	34	1.972	
76	IU5CJP	2018	SSB	54	54	36	1.944	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
77	DL4VAI	2018	SSB	50	50	38	1.900	DL4VAI
78	OM4KK	2018	SSB	67	67	28	1.876	OM4KK
79	LZ2JU	2018	SSB	52	52	35	1.820	LZ2JU
80	US2MT	2018	SSB	64	64	28	1.792	US2MT
81	OK2TS	2018	SSB	61	61	29	1.769	OK2TS
82	IW1BEF	2018	SSB	52	52	34	1.768	
83	IK0BAL	2018	SSB	62	62	28	1.736	
84	9A2EY	2018	SSB	66	66	26	1.716	9A2EY
85	PC4AD	2018	SSB	57	57	30	1.710	PC4AD
86	IT9CLN	2018	SSB	47	47	35	1.645	IT9CLN
87	R2EL	2018	SSB	50	50	32	1.600	R2EL
88	IT9BYS	2018	SSB	52	52	30	1.560	
89	OK1PFM	2018	SSB	47	47	33	1.551	
90	EA3DJL	2018	SSB	52	52	29	1.508	EA3DJL
91	ON4KMB	2018	SSB	51	51	29	1.479	ON4KMB
92	DF8HS	2018	SSB	46	46	32	1.472	DF8HS
93	PA5JD	2018	SSB	50	50	29	1.450	PA5JD
94	EI/OK1NYD	2018	SSB	60	60	24	1.440	OK1NYD
95	PA2VS	2018	SSB	53	53	27	1.431	
96	IW2EVH	2018	SSB	46	46	31	1.426	
97	RY6AAG	2018	SSB	49	49	29	1.421	
98	DL1EMA	2018	SSB	48	48	29	1.392	
99	YO4BEX	2018	SSB	53	53	26	1.378	
100	OK1LRD	2018	SSB	52	52	26	1.352	OK1LRD
101	YL2PP	2018	SSB	40	40	33	1.320	
102	OT2X	2018	SSB	50	50	26	1.300	OT2X
103	DO1CS	2018	SSB	50	50	26	1.300	DO1CS
104	YT5LD	2018	SSB	48	48	27	1.296	
105	EA5BAH	2018	SSB	47	47	27	1.269	OH2BAH
106	UR5FHD	2018	SSB	45	45	28	1.260	UR5FHD
107	YL2NK	2018	SSB	39	39	32	1.248	YL2NK
108	UY5ZZ	2018	SSB	54	54	23	1.242	
109	RA3DGH	2018	SSB	44	44	25	1.100	
110	UT1WW	2018	SSB	42	42	26	1.092	
111	IU2HEE	2018	SSB	35	35	31	1.085	
112	LZ1GE	2018	SSB	41	41	26	1.066	LZ1GE
113	IK4XQT	2018	SSB	48	48	22	1.056	
114	SQ6IYV	2018	SSB	40	40	25	1.000	SQ6IYV
115	DL6GCE	2018	SSB	36	36	27	972	DL6GCE
116	RD1T	2018	SSB	34	34	28	952	
117	DK5KF	2018	SSB	40	40	23	920	DK5KF
118	IT9BZW	2018	SSB	36	36	25	900	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
119	DK6QW	2018	SSB	37	37	23	851	DK6QW
120	HB9GKM	2018	SSB	34	34	25	850	
121	PD5ISW	2018	SSB	40	40	21	840	PD5ISW
122	YL2GP	2018	SSB	31	31	27	837	
123	RV1CB	2018	SSB	31	31	26	806	RV1CB
124	ES1TI	2018	SSB	31	31	26	806	
125	ON4MAD	2018	SSB	41	41	19	779	
126	IW9FI	2018	SSB	30	30	24	720	
127	SN100N	2018	SSB	34	34	19	646	SP9MDY
128	ON6LO	2018	SSB	29	29	22	638	
129	DL4MFR	2018	SSB	29	29	22	638	
130	UG3G	2018	SSB	27	27	23	621	UG3G
131	G0CPA	2018	SSB	33	33	17	561	G0CPA
132	DJ7A	2018	SSB	39	39	14	546	DJ7AT
133	IZ6MPZ	2018	SSB	28	28	19	532	
134	DO1ZZ	2018	SSB	29	29	18	522	
135	EA2WD	2018	SSB	30	30	17	510	EA2WD
136	LY2BAA	2018	SSB	25	25	20	500	LY2BAA
137	F6EWX	2018	SSB	26	26	19	494	F6EWX
138	IU4CZW	2018	SSB	24	24	19	456	
139	M1CCY	2018	SSB	35	35	13	455	M1CCY
140	IZ3ZBP	2018	SSB	22	22	20	440	
141	DL8MEF	2018	SSB	27	27	16	432	KARL
142	R4AC	2018	SSB	28	28	15	420	R4AC
143	IV3UHL	2018	SSB	26	26	16	416	
144	PA3HCC	2018	SSB	29	29	14	406	PA3HCC
145	PA9TT	2018	SSB	27	27	15	405	PA9TT
146	M0MPM	2018	SSB	25	25	16	400	M0MPM
147	IU8JPG	2018	SSB	22	22	18	396	CIRO
148	PA2CHM	2018	SSB	23	23	17	391	PA2CHM
149	LZ1VVD	2018	SSB	24	24	16	384	LZ1VVD
150	SP4DDS	2018	SSB	24	24	16	384	SP4DDS
151	PD0MHZ	2018	SSB	29	29	13	377	
152	PA5VK	2018	SSB	25	25	15	375	
153	IW0EZW	2018	SSB	23	23	16	368	
154	DO4WLL	2018	SSB	20	20	15	300	DO4WLL
155	UA4ASE/6	2018	SSB	21	21	14	294	
156	PA0RHA	2018	SSB	23	23	12	276	PA0RHA
157	PD1RO	2018	SSB	19	19	14	266	PD1RO
158	DL1JPF	2018	SSB	20	20	13	260	DL1JPF
159	M0RNW	2018	SSB	20	20	12	240	M0RNW
160	IK2AUK	2018	SSB	17	17	14	238	

SINGLE OPERATOR ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
161	PD7CJT	2018	SSB	26	26	9	234	PD7CJT
162	IU6FUB	2018	SSB	18	18	11	198	
163	DL1LSW	2018	SSB	15	15	13	195	
164	GW4W	2018	SSB	17	17	11	187	GW4EVX
165	IV3EWO	2018	SSB	15	15	12	180	
166	DJ9SN	2018	SSB	16	16	11	176	
167	OE3TPB	2018	SSB	12	12	12	144	OE3TPB
168	TK4RC	2018	SSB	12	12	11	132	TK4RC
169	CT7ATF	2018	SSB	11	11	11	121	CT7ATF
170	DH8DR	2018	SSB	12	12	10	120	
171	ON3URE	2018	SSB	11	11	10	110	ON3URE
172	DL8UBR	2018	SSB	11	11	10	110	
173	SQ3MZU	2018	SSB	12	12	8	96	SQ3MZU
174	R1ZM	2018	SSB	10	10	9	90	R1ZM
175	G8NVX	2018	SSB	9	9	9	81	G8NVX
176	R4HA	2018	SSB	9	9	8	72	R4HA
177	OE1VMC	2018	SSB	9	9	8	72	OE1VMC
178	EA4BMG	2018	SSB	9	9	8	72	EA4BMG
179	HB9GVW	2018	SSB	8	8	6	48	HB9GVW
180	Z34PEC	2018	SSB	7	7	6	42	
181	DF9XI	2018	SSB	8	8	5	40	
182	Z37FFF	2018	SSB	5	5	4	20	
183	ON5DVA	2018	SSB	4	4	4	16	ON5DVA
184	IW2NUX	2018	SSB	3	3	3	9	
185	DL1STV	2018	SSB	3	3	3	9	DL1STV
186	R6FY	2018	SSB	2	2	2	4	R6FY
187	IU1HHA	2018	SSB	1	1	1	1	

SINGLE OPERATOR ALL BAND QRP POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	HG6C	2018	SSB	138	138	70	9.660	HA6IAM
2	RW3AI	2018	SSB	105	105	66	6.930	
3	OK2SLS	2018	SSB	95	95	59	5.605	OK2SLS
4	LZ1DM	2018	SSB	95	95	52	4.940	LZ1DM
5	LY5G	2018	SSB	88	88	55	4.840	
6	DM5CT	2018	SSB	83	83	51	4.233	DM5CT
7	YL3FW	2018	SSB	75	75	47	3.525	YL3FW
8	PA0AWH	2018	SSB	75	75	35	2.625	
9	HF40CUF	2018	SSB	54	54	35	1.890	HF40CUF
10	UZ5DM	2018	SSB	53	53	32	1.696	UZ5DM
11	IZ7XIB	2018	SSB	41	41	26	1.066	
12	SP6IHE	2018	SSB	41	41	23	943	SP6IHE

SINGLE OPERATOR ALL BAND QRP POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
13	IK3XTY	2018	SSB	42	42	20	840	
14	RQ7M	2018	SSB	36	36	22	792	
15	RZ3ARO/6	2018	SSB	30	30	20	600	RZ3ARO
16	DO4HZ	2018	SSB	30	30	16	480	DO4HZ
17	DL8MF	2018	SSB	20	20	17	340	
18	IU2IGX	2018	SSB	22	22	15	330	
19	M6NNC	2018	SSB	20	20	16	320	M6NNC
20	YO4AAC	2018	SSB	18	18	14	252	YO4AAC
21	IU5HES	2018	SSB	17	17	10	170	
22	ES1QD	2018	SSB	13	13	9	117	ES1QD
23	DL5SFC	2018	SSB	7	7	7	49	
24	DH0GDS	2018	SSB	8	8	6	48	
25	UA1ABJ	2018	SSB	6	6	6	36	UA1ABJ
26	UB1AHI	2018	SSB	5	5	5	25	
27	F4AJK	2018	SSB	0	0	0	0	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	I2WIJ	2018	SSB	557	557	149	82.993	
2	IZ4JUK	2018	SSB	467	467	138	64.446	
3	YL3CW	2018	SSB	320	320	116	37.120	
4	DG9SEH	2018	SSB	328	328	112	36.736	DG9SEH
5	DG6SA	2018	SSB	320	320	105	33.600	DG6SA
6	IK8UND	2018	SSB	290	290	100	29.000	
7	DL8AAE	2018	SSB	235	235	93	21.855	DL8AAE
8	SV1JG	2018	SSB	225	225	85	19.125	SV1JG
9	DL1NKS	2018	SSB	196	196	92	18.032	DL1NKS
10	PA5KM	2018	SSB	187	187	87	16.269	PA5KM
11	LZ1ND	2018	SSB	248	248	63	15.624	LZ1ND
12	LZ5DD	2018	SSB	235	235	65	15.275	LZ5DD
13	RL4A	2018	SSB	197	197	72	14.184	
14	LZ9Z	2018	SSB	187	187	72	13.464	LZ1ZF
15	YT5IVN	2018	SSB	147	147	75	11.025	YT5IVN
16	9A1CFR	2018	SSB	148	148	65	9.620	9A2NO
17	EA7KI	2018	SSB	155	155	55	8.525	EA7KI
18	GI4VHO	2018	SSB	134	134	57	7.638	GI4VHO
19	IQ5PO	2018	SSB	130	130	57	7.410	IZ5VCI
20	PA3AAV	2018	SSB	118	118	61	7.198	PA3AAV
21	OE6MMD	2018	SSB	115	115	60	6.900	OE6MMD
22	EC1DD	2018	SSB	117	117	57	6.669	EC1DD
23	C31CT	2018	SSB	96	96	61	5.856	C31CT
24	IK4UXB	2018	SSB	156	156	36	5.616	

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
25	G3PXT	2018	SSB	102	102	54	5.508	G3PXT
26	IU3BTY	2018	SSB	170	170	32	5.440	IU3BTY
27	OE100RAD	2018	SSB	106	106	51	5.406	OE100RAD
28	LY3CY	2018	SSB	99	99	50	4.950	LY3CY
29	S57DX	2018	SSB	106	106	44	4.664	S57DX
30	EW1TZ	2018	SSB	86	86	47	4.042	EW1TZ
31	IT9ESW	2018	SSB	67	67	40	2.680	
32	ON6LR	2018	SSB	67	67	31	2.077	ON6LR
33	RC1W	2018	SSB	53	53	35	1.855	
34	DL4JLM	2018	SSB	56	56	30	1.680	
35	G4MFX	2018	SSB	44	44	36	1.584	G4MFX
36	LZ6F	2018	SSB	53	53	22	1.166	LZ6F
37	DJ2YE	2018	SSB	43	43	25	1.075	DJ2YE
38	SV3QUY/1	2018	SSB	45	45	20	900	SV3QUY/1
39	Z61DX	2018	SSB	41	41	20	820	Z61DX
40	EA3ELZ	2018	SSB	36	36	20	720	EA3ELZ
41	UR5EDX	2018	SSB	27	27	22	594	UR5EDX
42	OE5JSL	2018	SSB	28	28	19	532	OE5JSL
43	PA5KT	2018	SSB	25	25	21	525	PA5KT
44	SP1GA	2018	SSB	26	26	15	390	SP1GA
45	DN2MDU	2018	SSB	23	23	15	345	DN2MDU
46	SV8NBI	2018	SSB	20	20	15	300	SV8NBI
47	LY5W	2018	SSB	20	20	14	280	LY5W
48	DF1GRA	2018	SSB	7	7	7	49	DF1GRA

SINGLE OPERATOR ASSISTED LOW-BAND HIGH POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	DF6JC	2018	SSB	241	241	72	17.352	
2	UA4S	2018	SSB	237	237	72	17.064	RU4SO
3	LY3BB	2018	SSB	228	228	70	15.960	LY3BB
4	LY2SA	2018	SSB	212	212	62	13.144	LY2SA
5	SO5MAX	2018	SSB	104	104	43	4.472	MACIEK
6	UT1S	2018	SSB	84	84	50	4.200	UR5STI
7	SP2GOW	2018	SSB	74	74	42	3.108	SP2GOW
8	UT8AS	2018	SSB	63	63	35	2.205	
9	UR3VKR	2018	SSB	55	55	39	2.145	UR3VKR
10	PA0MIR	2018	SSB	50	50	30	1.500	PA0MIR
11	DL2LDE	2018	SSB	36	36	17	612	
12	US5LOD	2018	SSB	30	30	18	540	US5LOD
13	9A3XV	2018	SSB	23	23	16	368	9A3XV

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	4O9TTT	2018	SSB	404	404	105	42.420	4O9TTT
2	RZ3Z	2018	SSB	249	249	95	23.655	RZ3Z
3	IW2MXY	2018	SSB	224	224	80	17.920	
4	IK4LZH	2018	SSB	275	275	62	17.050	IK4LZH
5	YT2T	2018	SSB	171	171	91	15.561	OU5A
6	ON5RZ	2018	SSB	188	188	82	15.416	ON5RZ
7	OL100RCS	2018	SSB	180	180	85	15.300	OK1AY
8	ER3CT	2018	SSB	178	178	83	14.774	ER3CT
9	DJ1OJ	2018	SSB	171	171	82	14.022	DJ1OJ
10	SV3RPQ	2018	SSB	169	169	68	11.492	SV3RPQ
11	EA3FP	2018	SSB	175	175	57	9.975	EA3FP
12	G1TPA	2018	SSB	131	131	65	8.515	G1TPA
13	HB9OCR	2018	SSB	120	120	68	8.160	HB9OCR
14	EW6F	2018	SSB	131	131	56	7.336	EW6GF
15	PC1PM	2018	SSB	105	105	59	6.195	PC1PM
16	EA5IJG	2018	SSB	115	115	52	5.980	EA5IJG
17	9A6DJX	2018	SSB	102	102	54	5.508	
18	YO2GL	2018	SSB	93	93	58	5.394	YO2GL
19	SQ3M	2018	SSB	100	100	50	5.000	SQ3M
20	YU2A	2018	SSB	99	99	49	4.851	YU2A
21	US5QUB	2018	SSB	82	82	47	3.854	US5QUB
22	SV2CLJ	2018	SSB	91	91	36	3.276	SV2CLJ
23	LY2AX	2018	SSB	68	68	47	3.196	LY2AX
24	DF4XF	2018	SSB	65	65	40	2.600	
25	9A2W	2018	SSB	60	60	43	2.580	9A2W
26	PA1BK	2018	SSB	56	56	37	2.072	PA1BK
27	RN3K	2018	SSB	50	50	37	1.850	RN3K
28	PD1B	2018	SSB	57	57	25	1.425	PD1B
29	IZ4XAI	2018	SSB	40	40	22	880	
30	PC5Z	2018	SSB	36	36	22	792	PC5Z
31	IK5YJK	2018	SSB	35	35	20	700	IK5YJK
32	DL4HMS	2018	SSB	29	29	23	667	DL4HMS
33	RN4HAB	2018	SSB	33	33	20	660	RN4HAB
34	LZ3DJ	2018	SSB	25	25	18	450	LZ3DJ
35	PD0WVB	2018	SSB	26	26	15	390	PD0WVB
36	PE5O	2018	SSB	20	20	17	340	PE5O
37	PA3GDD	2018	SSB	24	24	11	264	PA3GDD
38	M0TQR	2018	SSB	16	16	12	192	M0TQR
39	PD3OES	2018	SSB	9	9	6	54	PD3OES
40	SN100RP	2018	SSB	9	9	6	54	SP9RQH
41	DL9OHA	2018	SSB	8	8	6	48	

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
42	LZ2AF/2	2018	SSB		5	5	4	20 LZ2AF
43	LZ2AF/P	2018	SSB		3	3	3	9 LZ2AF

SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	RT4W	2018	SSB		85	85	46	3.910 RT4W
2	RU6YJ	2018	SSB		66	66	45	2.970 RU6YJ
3	YO5KMM	2018	SSB		66	66	38	2.508 YO5KMM
4	MM3AWD	2018	SSB		38	38	24	912 MM3AWD
5	PE2K	2018	SSB		20	20	14	280 PE2K
6	LZ7H	2018	SSB		4	4	4	16 LZ7H

MULTI OPERATOR SINGLE TRANSMITTER - EUROPE SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	IT9YVO	2018	SSB	436	436	130	56.680	IT9SSI IT9UFP IT9YVO
2	HG7T	2018	SSB	335	335	106	35.510	HA7TM HG5DX
3	HG6V	2018	SSB	281	281	96	26.976	HA1AC HA5PA HA6IHA
4	UZ4E	2018	SSB	302	302	81	24.462	UZ4E
5	OL2J	2018	SSB	241	241	101	24.341	OK2PYA OK2WKW
6	MS0FNR	2018	SSB	228	228	79	18.012	MS0FNR
7	SP2TMT	2018	SSB	164	164	77	12.628	SP2JKH SP2GR SP2HSA SQ2BNM SQ2CFV SP2IWL
8	RK4HYT	2018	SSB	162	162	74	11.988	
9	UR4RWW	2018	SSB	138	138	69	9.522	UR5RU, US-R-86
10	HA5TOP	2018	SSB	124	124	60	7.440	HA5BI HA7GSZ
11	OE100XA	2018	SSB	110	110	67	7.370	OE1LZS OE1RHC
12	HB9EI	2018	SSB	122	122	55	6.710	
13	CR2X	2018	SSB	100	100	60	6.000	OH2BH OH2GEK OH8NC OH2MM OH2UA
14	IQ8UW	2018	SSB	53	53	35	1.855	IK8YFU IU8GUK
15	UR4PWC	2018	SSB	46	46	33	1.518	OLEKSIJ BAKANOV, EUGENE OKHMANIUK
16	PI4ZI	2018	SSB	50	50	23	1.150	PA0VLA PA3FNB ERIK LUCA MAIKEL
17	OL1B	2018	SSB	44	44	22	968	OK1FMJ OK1BLU
18	HF5L	2018	SSB	31	31	25	775	SP573012 SP573015

CHECKLOGS - EUROPE SSB								
DL7USW/P, DN4HMS, EA4GQS, EB1ADD, GW7MHB, GW7MHB/P, HB2U, HG8C, LY2CO, LY4T, M6EAM, PA2LO, PA3DBS, SQ7OTK, UR6EA, YO3AS , YO5IA, YO6KGS								

# Results SAC SSB 2018 NORTH AMERICA



## SINGLE OPERATOR ALL BAND HIGH POWER - NORTH AMERICA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	WB9Z	2018	SSB	125	179	69	12.351	WB9Z
2	K3ZO	2018	SSB	101	193	57	11.001	
3	K8MFO	2018	SSB	99	109	51	5.559	K8MFO
4	KA8Q	2018	SSB	53	57	30	1.710	KA8Q
5	K4BAI	2018	SSB	45	45	22	990	K4BAI
6	W1GXZ	2018	SSB	39	39	21	819	W1GXZ
7	N5AW	2018	SSB	34	34	21	714	
8	K5ZD	2018	SSB	17	29	14	406	K5ZD
9	ND9G	2018	SSB	15	15	12	180	ND9G
10	VA2OBW	2018	SSB	12	12	8	96	
11	VA6MA	2018	SSB	10	10	9	90	VA6MA
12	N5ZO	2018	SSB	7	9	5	45	N5ZO
13	K9TWW	2018	SSB	1	1	1	1	K9TWW

## SINGLE OPERATOR ALL BAND LOW POWER - NORTH AMERICA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	VE3DZ	2018	SSB	112	116	45	5.220	VE3DZ
2	AB2TC	2018	SSB	63	65	38	2.470	AB2TC
3	N7ZZ	2018	SSB	59	59	34	2.006	N7ZZ
4	KS3D	2018	SSB	44	46	26	1.196	KJ3N
5	VE3VN	2018	SSB	42	42	25	1.050	VE3VN
6	N1WRK	2018	SSB	20	20	16	320	
7	KN4EWI	2018	SSB	17	17	13	221	KN4EWI
8	WJ4HCP	2018	SSB	6	6	5	30	
9	AA7TV	2018	SSB	5	5	5	25	AA7TV
10	W7RTM	2018	SSB	4	4	3	12	W7RTM
11	W0NFS	2018	SSB	3	3	3	9	W0NFS
12	N1TYH	2018	SSB	2	2	2	4	N1TYH

## SINGLE OPERATOR ALL BAND QRP POWER - NORTH AMERICA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	K3TW	2018	SSB	10	10	9	90	K3TW

SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - NORTH AMERICA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	VO1MP	2018	SSB	69	113	46	5.198	VO1MP
2	K2WK	2018	SSB	71	115	41	4.715	K2WK
3	N3RD	2018	SSB	97	97	46	4.462	N3RD
4	NK3Y	2018	SSB	74	74	36	2.664	NK3Y
5	AA7G	2018	SSB	67	77	33	2.541	AA7G
6	K9NW	2018	SSB	53	53	27	1.431	K9NW
7	W3MMM	2018	SSB	36	36	30	1.080	W3MMM
8	N4QS	2018	SSB	40	40	25	1.000	N4QS
9	NO2C	2018	SSB	31	33	24	792	NO2C
10	N1PGA	2018	SSB	28	32	23	736	N1PGA
11	K2RYD	2018	SSB	29	33	22	726	K2RYD
12	VE9CB	2018	SSB	12	30	11	330	VE9CB

SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - NORTH AMERICA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	VE3TM	2018	SSB	46	46	22	1.012	VE3TM
2	W1PJE	2018	SSB	26	26	20	520	W1PJE
3	K1NZ	2018	SSB	18	28	16	448	K1NZ
4	KD2IWW	2018	SSB	8	8	6	48	KD2IWW
5	KN5S	2018	SSB	1	1	1	1	K5WW

SINGLE OPERATOR ASSISTED ALL BAND QRP POWER - NORTH AMERICA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	K8ZT	2018	SSB	26	26	18	468	K8ZT

MULTI OPERATOR SINGLE TRANSMITTER - NORTH AMERICA SSB								
RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	N1SOH	2018	SSB	3	3	3	9	N1SOH W1FM



# Results SAC SSB 2018 OCEANIA



## SINGLE OPERATOR ALL BAND HIGH POWER - OCEANIA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	VK2CZ	2018	SSB	8	8	6	48	

## SINGLE OPERATOR ALL BAND LOW POWER - OCEANIA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	9W6MUL	2018	SSB	8	24	6	144	9W6MUL
2	9W6AJA	2018	SSB	6	18	5	90	9W6AJA
3	YB7OO	2018	SSB	6	18	5	90	YB7OO
4	YC1KK	2018	SSB	5	13	5	65	YC1KK
5	YB4NY	2018	SSB	7	7	7	49	YB4NY
6	YB3BAR	2018	SSB	1	3	1	3	YB3BAR
7	YB3GET	2018	SSB	1	3	1	3	YB3GET
8	VK4PZZ	2018	SSB	1	1	1	1	VK4PZZ

## SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - OCEANIA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	YB3DY	2018	SSB	24	62	16	992	YB3DY
2	YB0NDT	2018	SSB	33	33	20	660	YB0NDT
3	VK3GK	2018	SSB	22	26	17	442	VK3GK

## SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - OCEANIA SSB

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	YF3DFB	2018	SSB	10	30	9	270	YF3DFB

## MULTI OPERATOR SINGLE TRANSMITTER - OCEANIA SSB

RANK CALL YEAR MODE QSO POINTS MULT SCORE OPERATORS

1	YB3ZBD	2018	SSB	5	15	5	75	YB3OIR YC3RJL YC3VRY YD3UX YF3CYU YF3CYS YF3CYT YG3EOY YG3EOQ
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# Results SAC SSB 2018 SOUTH AMERICA


**SINGLE OPERATOR ALL BAND HIGH POWER - SOUTH AMERICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PY9GC	2018	SSB	38	38	23	874	PY9GC

**SINGLE OPERATOR ALL BAND LOW POWER - SOUTH AMERICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PY2XC	2018	SSB	7	7	6	42	PY2XC

**SINGLE OPERATOR ASSISTED ALL BAND HIGH POWER - SOUTH AMERICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PS2T	2018	SSB	214	340	102	34.680	
2	PJ4DX	2018	SSB	106	132	56	7.392	PJ4DX
3	PY5QW	2018	SSB	94	94	38	3.572	PY5QW
4	PY1VOY	2018	SSB	35	35	28	980	PY1VOY

**SINGLE OPERATOR ASSISTED ALL BAND LOW POWER - SOUTH AMERICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	PY5FO	2018	SSB	18	18	16	288	PY5FO
2	PP5DZ	2018	SSB	7	7	7	49	PP5DZ

**MULTI OPERATOR SINGLE TRANSMITTER - SOUTH AMERICA SSB**

RANK	CALL	YEAR	MODE	QSO	POINTS	MULT	SCORE	OPERATORS
1	CE2LS	2018	SSB	22	44	21	924	CE2RTF CE2SQE



## SC7DX - SAC 2018

SC7DX was operated by Mats SM7GIB and Björn SM7IUN. The station used was that of Yngve SM7BCX. Yngve's QTH is beautifully located at Stenhejdan north of Ystad, with a clear view in all directions and electrically very quiet.

Saturday morning Mats arrived to set up the station for the contest but was not able to get the station's own computer properly working. Also, the 40m antenna behaved erratically and needed attention.

Under time pressure, Mats was able to improvise using his own laptop which was then used for the remainder of the contest. Unfortunately, this makeshift set up resulted in some keying issues so for the first part of the contest there was some noticeable QSD.

The operation started on 20m with good activity, then moved onto 40 and 80m as the night closed in. 15 and 10m were essentially silent in Southern Sweden. At 4:30am Sunday morning Björn's alarm clock went off, and him arriving at the station allowed Mats to get some well-earned sleep.

Björn also brought the cabling needed to resolve the issues with rig control and keying. By this time 80m was beginning to fade but greyline propagation was good on 40m with a decent number of US stations, including US west coast, as well as half a dozen ZL stations worked.

After Mats had gotten some sleep, Björn and Mats took turns operating through the morning, but as always band activity was lower than the day before. Some attempts were made on 15 and 10m but yielded very little.

We could understand there were some openings across the Baltic sea further north, but the only stations heard on 10m in SM7 were local SM and OZ.

Overall, we were very happy with our results although not having proper rig control until towards the end of the contest made multiplier chasing somewhat cumbersome. But this probably had only a minor influence on the result since SAC is mainly a CQ-game.

Vy 73 from SM7IUN & SM7GIB



# The SOAPBOX

**This year's comments from many of the participants.**

As you can read most of us had a really good time making contacts all around the world. We will meet again.

ZL2IFB	high qrн on 80m at zl dawn meant a quick move to 40m this year. plenty of sigs on 40m made it fun to dig out the sac entrants and give them a surprise from the far side. k3, alpha 87a 1 kw out to an 80m fullwave wire loop suspended between 2 fir trees, (also used with an atu on 40m) and a 2 ele yagi on 20m.
YT5IVN	qrv for 4 hours only, thx for nice contest! cuagn in 2019!
YP5A	ft-950 + pa 400 w a3s, deltaloop v
YO5AXF	yaesu ft-897d 100w & ocf multiband dipole
YO4SI	rig kenwood ts-450sat 100 w; ant fd4 dipole i was vy qrl. 73s for all !
YO4BEX	tсvr home made 100w vertical ant
YO4BEX	i observed the contest rules tсvr home made 100w vertical ant
YO2CJX	rig ts140s abt 100w ant dipole mb
YO2CJX	rig ts140s ant dipole mb
YL3FW	trx sunsdr2-pro; ant inv.v; tnx & 73!
YL3AD	i'm lucky about those few qso's on 20 m band this year. propagation was not the best but fighting was hard! thank you for good possibility to take part! 73! janis
YF3DFB	we are member of kediri dxc team - club station orari local kediri - yb3zbd, good luck to the contest, 73's de yf3dfb
YB3ZBD	we are kediri dxc team- club station orari lokal kediri - yb3zbd, gl to the contest, 73's de yb3zbd- okt 2018
WQ6X	this is another last minute remote gig from nx6t in fallbrook, ca. after the na sprint rtty wq6x went looking for scandinavian stations.20 was already dead and 80 to north eu not possible using only a droopy bazooka inv. vee so i made this an sb/40 gig. look for a writeup on this at <a href="http://wq6x.blogspot.com">http://wq6x.blogspot.com</a>
WJ4HCP	scandinavian activity contest, ssb-sac 2018 contest
UY5VA	73!
UY3U	ic-756pro3, 4-el. yagi
UT8AS	trx - miniyes + pa 100 w out, ant - vert delta 85m
UT8AS	trx - miniyes - 5 w out, ant - vert delta 85m, 4-el yagi for 14mc
UT7LW	ut7lw@ukr.net
UT4LW	sdr trcvr sunsdr2-pro, kxpa100 antennas160,80,40 - dipole up18m, fider 70m. 20,15,10 - spider up 10m, fider 30m.
US5XD	us5xd@ukr.net
US5LOD	tnx 73!
US5D	use home build trx ,manual log, sorry no freq counter.
UR7EC	ic 746, vertical
UR5ZGY	kenwood-590 s
UR5KBP	trx homemade 5w, ant delta 7,0 mhz; gp 7,0 mhz
UR5EDX	ic-775dxii
UR5EDX	ic-775dxii
UR5AW	ur5aw17@gmail.com
UR4RWW	tnx for test. good luck and 73's
UR3VJC	73!
UN8PT	73!
UN8PT	73!
UN7LDR	kenwood ts-850s ant. delta,jv.
UB1AHI	rig ft-817nd ant 40m dipole
UA9XMC	ft-757gx, 3 el yagi, cable 30m
UA9SUV/8	73!
UA9SMU	tnx 73!
UA6GF	ua6gf@mail.ru
UA6CC	tnx 73
UA5F	ua5f@mail.ru
UA4QK	73 !

UA4PAQ	73!
UA3THY	tnx 73!
UA3QGT	tnx
UA3PP	73!tnx!
UA1CEG	homemade,5 watts, delta
UA1ABJ	tnx 73!
UA0SBQ/P	rig ft-817 power 5w; antennas loop 84 m; battery12v x 4ah.
UA0SBQ/P	rig ft-817 power 5w; antennas 40/20m delta loop 84m; battery 12v x 4ah.
TM6M	couldn't be qrv full contest due to qrl.tks for qsos !see you next one !oli
TF3T	only on 40m - really bad cdx, no real opening into na. when band was open not many hams in the air. all on ft8?
TA4PR	thanks for contest
TA3EP	73
TA3AER	ic-7600, 7 el 3 band (20,15,10) homemade yagi
TA2XX	73's de ta2xx
TA2BS	73 & tnx
TA2BS	73 & tnx
SV9RPE	very little time this year but pleased to be a multi for a few. condx not good this time but we hope for better next year. 73. dick...
SV8/HB9FIH	sat a lot of radar ! tnx for listen a weak station. hr ft-857d / zs6bkw/ qth psara (small isand) 40/20m possibel others dead...73 erich
SQ3MZU	rig kenwood ts-870 pwr100 w ant gp-5, w3dzz -mail sq3mzu@gmail.com
SP9R	thanks, 73`s de jan
SP9KJU	trx ic730 abt 60w, ant 1 el delta loop 42m hand key
SP7QO	best greetings from lodz, poland! trx yaesu ft-897d pwr 100 w output ant 33 m end-fed-sloper stan sp7qo plik utworzony programem "cabrillo generator" - (c) sp7dqr
SP2TMT	sd is very nice program to contesting
SP1AEN	trx ts-940s 50 wtts; ant. lw for all bands
SO5MAX	trx. ft 990, ant. delta=82m up. 9m
SN100N	trx ic730 abt 50w, ant inw v,
SN100L	ic-735 pwr 90w outp. ant w3dzz 25 m up
SM7RYR	gp 40 m, trapdipole 40/80m, gp 20m, 100 w.
SM6FPC	rig k2, 2-el vert loop for 40m
SM5GLC	fever and sneezing made it almost unbearable. i'll be back next year in top shape!
SM2CVH	rx r4a (1967)tx t4x (1968) ant 96 m lw
SM0FPR	rig kx3 - kxpa100 - kpa500 hy-gain av640 (40-6) (and a good nights sleep). scandinavians).
SI9AM	73 de sm5sic gran, sm3fjf jrgen & sm3eae lasse
SI3A	yl-operator
SG3O	always nice to participate in the sac-contest, due to family matters didnt have time fr more qso s.
SC3N	hard work for small result
S57DX	few hours for fun. just give out some point to my scandinavian friends.
RZ3ARO/6	tnx 73!
RX3VF	ic 746, lw
RW3AI	icom 706 power 5 watts, antlw , eco vertical
RW0UM	73!
RV9UCN	rig icom ic-756pro2 pwr 100 w ant10/15/20 m - ad335 thanks for a nice contest! i will be back next year.
RU4LM	ts 590s 100 wt, spider 5 band
RU3YAA	ft-857d, citywindom 80-10m pwr 100 wt
RT0O	73!
RN3S	icom 760pro, inverted v 40/80, sloper 20/15m
RM1T	73!
RL9L	73
RL4F	rl4f@ro.ru
RK9AK	ic-756 pro ii tnx 73 !
RK4HYT	good contest
RK3P	ts 590s,delta 40, delta 80, say5-9.
RC9J	tnx 73
RC7B	rc7b_4k8m@mail.ru
RA9YUI	tnx 73!

RA3XCZ	73!
RA3WUG	tnx, 73! rig yaesu ft-817; pwr 5 wtts, , 40, 20, 15, 10
RA3DGH	yaesu ft-450, dipole i declare that all contest rules and all the rules and regulations for amateur radio operations in my country have been observed and adhered to. i accept the decisions of the contest committee.
RA0AY	rig(s) ts590; antenna(s) dipole
R9OO/9	rig kenwood ts-950sdx pwr 100 w ant10/15/20 m - cuchcraft r7, 40/80 m - dipoles e-mail uh9oaa@bk.ru
R9CC	tnx 73!
R8WO	ts-590s,100 watt say_3-7 20,15,10m, dipole-40,80m tnx!
R7AC	rk6asy@yandex.ru
R6CW	ts-590s - 100watts ant - loop
R4WT	ftdx-5000mpiv
R4WAE	trx icom-738, ant vertical mb, dipole 14 mhz
R4FCJ	rig ic-756 proiii pwr100 w ant10/15/20 m - yagi r7, 40 m - dipoles, 80 m - inv.-v e-thanks for a nice contest! i will be back next year
R4AC	ft-3000dx, 100 wt, ant dipole
R3VL	tx ft-450d 100 w, ant w3dzz and gp
R3PIQ	gl! 73!
R2LAC	elecraft k2 flex-1500 wire antennas
R2GB	email r2gb@mail.ru
R2EL	73ltnx
R1QE	rig icom-718, 100wt. ant. quad 160m. all band. 10m. up
ROAK	rig kenwood ts-590 pwr 100 w say 3-7 ad-222. tack for tavlingen! med basta onskemal! team r0ak. thanks for a nice contest! i will be back next year.
PJ4DX	static from a local thunderstorm on the friday before the contest blew up my ft-2000 front-end pre-amps, so i was operating with what seemed like 20 or 25db of attenuation in for the whole contest. this was not an issue on 80m but on 15m is certainly was! nothing heard from Scandinavia on 10m and qrn from the thunderstorms made reception difficult on 40m and especially 80m. conditions seemed poor on the low bands early sunday morning i was seeing spots for what would have been mults on 40m that i could not hear - even oh8x! it is always good to work old and new friends in sac and i will be back next year - let's hope for better propagation then. rig yaesu ft-2000 to acom 1500 amp at 1kw to spiderbeam at 11m for 15 and 20m, 40m elevated vertical and dipole at 17m high, 80m quarter-wave vertical.
PI4ZI	participation with students from course for full amateur licence. and 40 meter antenna valuable experience none the less.
PG2AA	mised the condx on 15msignals often with qsb. see you next year!
PE2K	i am the best, 73 pe2k
PE2K	dear yl/om< all qso's made with qrp 5 watt and a dipole. qsl pse via buro. 73 pe2k
PE1FJN	sunsdr2 qrp 5w into 40m/20m/10m hy-end fed antenna gave 2 time 599 024 sorry for that
PD5ISW	rig icom ic-7400 pwr25 w ant6-bands hex-beam homemade and hy-gain vertical av-640 thanks for the contest! i hope for me next year better.
PC5Z	single band 40 meter, hyendfed wire, ts-850sat, 100watt.
PC4AD	i am licensed since may 2017
PA3GVQ	what a nice and friendly contest. 2x9 meter dipool and 600 ohm ladderline and about 150w pep. hope to work you all next year again!
PA2VS	tx icom 7300 + endfed antenna, thank you for contest activity.
PA2CHM	used sd for post-contest logging
PA2CHM	40m used sd for post-contest logging, works fine!
PA1CX	rig ic-7300 pwr 70 w ant hi end fed vertical. i'm a beginner at contesting. this contest is great for training morse code.
PA0VLA	ancient heathkit hw9 with short wire antenna. qrn3/4 , but fun to qso 50 stations.
PA0MIR	aerial for just a few contacts as we have our pa meeting on the saturday.
PA0M	good training for my cw,nice to meet all those friendly cw-ers, cuagn
PA0AWH	rig ft817, 5 watt in ssb antennas sloping delta loop / windom as inv. vee
OZ3SM	rig elecraft k3/p3; pa solid state 600w; ant 80m vertical loop and hexbeam
OZ1KKH	better condx than last year
OZ1IVA	wire only
OY7O	the night before the contest a storm broke the fibre-mast and tangled
OY1CT	had a lot of noise on saturday, made it hard to copy exchange from weak stations -i am expecting some bad copy qsos.
ON5WL	the propagation on 80 and 40 m was good. there was much activity from scandinavia, but when i called cq i

	could not make many qso, so i mostly searched the bands. my CAT was low band. till next year. 73 leonon5wl
ON5RZ	80 meters was ok, worked some short-skip oz on 20. low participant-number of sm-calls or just no condx ? zs6bkw and 70w - s&p only.
ON5DVA	yaesu ft-817 + 50w amp.
ON2AD	used ic-703 - 5 watt - antenna endfed 73 de pat on2ad
OM8JP	triband dipole 14-21-28, g5rv 3,5-7
OM4ANO/P	rig ft-897d es ant g5rv junior.tnx!
OM3BA	tcvr icom 735out 90 watts antrandomwire+lc matchbox
OL4W	kx3 5w lw42m
OK5M	flex 6500, 100 w, half sloper - 80m, hb9cv - 40m, owa 20m
OK2SWD	good contest. see you again friends. tx yaesu ft-897d 35 w, ant gp.
OK2SLS	ft 817 5 w delta loop 160m
OK2SLS	ft 817 5 w delta loop 160m
OK2QX	sorry, that many scand. stations worked with antennas to east or west and not to south for the eu stations. this and "city" qrm on80 m (s8) = bad results - hi. rig"k3" 100 w, 3 el beam and 54 m lw.
OK2MBP	rig[s] ic-756proiii-100w, antena[s] windom fd5
OK2MBP	rig[s] ic-756proiii-100w, antena[s] windom fd5
OK2BJK	rig ft-897d, pwr <100w, ant lw 34m 7mup, my age85y sri, gb oms.
OK1VK	ts-590s, invert v+l, 600w, win-test
OK1KMU	kenwood ts570pa 300want dipolrex k9ay
OK1IE	good vekend contest.gl to next years. ts-480,ant-2el, gp, double zep.
OK1HCG	50w
OH8FIU	rig summit master sm15 ant loop
OH7KBF	sac ssb contest 2018
OH7KBF	sac cw contest 2018
OH7EBA	e-mail oh7eba@sral.fi
OH6NJ	rfi-troubles with logging computer throughout the contest. 1st hf-contest with n1mm logger+ so it is obvious that i made lots of mistakes with logging. lost one linear amplifier during the night, however i was lucky to have old sb-220 as a spare.
OH6AC	ic-7610 + frontier pa, ocf-dipole
OH4BCS	aurora did not spoil this time, but local industrial noise was worst in the morning... also a thunderstorm between 1000-1100z... 21 mhz antenna missing, most bands done on 18 m long vertical ... cheers/73, zaba oh1zaa
OH3R	sac 2018 cw oh3r
OH3CK	sac cw 2018
OH3AC	sac 2018 ssb
OH3AC	sac 2018 cw
OH2MZA	autumn es came as expected for a short visit on 28 mhz... cheers/73, zaba oh1zaa
OH2MZA	28 mhz activated as promised... main operating at oh4bcs all band ... cheers/73, zaba oh1zaa
OH2MM	14 hours to operate. 7 hours to sleep. 3 hours for breakfast, sauna, and dinner this is my way to work the contest. thanks to pertti, oh2pm and his xyl to make his super station available to me.
OH2LU	ic-756proii, 50 w, mosley ta33-m
OH2LU	ic756pro2, 5 w, tribander + trap dipole
OH2LH	vintage station 35+ years old equipment
OH2IS	ismo, oh2is in kiikala summer cottage station
OH2HZ	rig ts180s, ant w3dzz & cushcraft r5
OH2HZ	rig ts-180s, antennas w3dzz & cushcraft r5
OH2ECG	yaesu ft-2000, ocf-dipole at 25m agl.
OH2BAH	thank you to juhani for letting me use his station again
OH2BAH	we worked this contest in memory of matti oh2po who passed away one day before the contest.
OH1SIC	part-time operation in bad propagation. 73 de oh1sic / sm5sic gran
OH0Z	remote did not work on ssb, mic audio problems prevented real effort.
OH0FM	station location getabergen jp90wj
OG6N	not a full effort. slept 5 hours. had fun though. poor ant on 80m resulted in a poor number of qsos. 15m was almost non-existent.
OG60F	nice usa condx on 20m on saturday evening. after the impact the
OG60F	radio club oh1af/oh1f is celebrating 60th anniversary this year 2018. stations and 3 ops.
OG55W	i think that several operators has in the log og55w and og5hw, and i have many dupes...hi!

OG1D	sac ssb 2018
OE1VMC	fun contest
N4BP	2018 sac
N2KW	thanks to dave (k1ttt) for the use of his fine station!
N2BZD	contest looked like fun one contact propagation was poor from nj in usa propagation to oh and la was not possible with 100 w. was able to work denmark, oz see you next year i always start with a s/n = 7 or higher oz1aa
M0MCV	glad to have more time this year to support the contest. Very enjoyable contest with plenty of activity.
LZ2RS	only as check log
LY5G	thanks for contest!
LN5O	wires only
LA9RY	operated with ic-7300 and g5rv full size at 12 m. limited number of operating hours this time.
LA9OI	worked 4 stations on 15 meters (sv1, 5b and 4x) - the only stations i heard up here in loc jp78sc in north norway. 10 meters was dead.
LA6CF	as fun as allways
K5ZD	didn't hear many stations on low bands.
K3TW	"band conditions were above average for qrp (5 watts output)."
K3TW	"thanks for another very enjoyable sac cw contest.it's always fun to work so many scandanavian stations, especially with special call signs."
K1GQ	skookumlogger k3 kpa1500 2xa-3b-12l ob2-40 wires
JS1NDM	i enjoyed the contest.
JS1NDM	i enjoyed the contest.
JR2PMT	i enjoyed the contest.
JP3MFV	i enjoyed the contest.
JN4MMO	missing number 003
JN3TMW	i enjoyed the contest.
JK7DWD	tnx qso cuagn 73
JK1LUY	200w hb9cv
JJ3TBB/3	operating location is "tarumi-ku, kobe-city in hyogo" rig is ts-850s and ant is gp
JJ0NSL	i enjoyed the contest.
JH1OGC	i enjoyed the contest.
JH0ROS/1	i enjoyed the contest.
JHOILL	i enjoyed this contest,tnx! rigits-480 1kw,ant yagi,dp
JHOILL	i enjoyed this contest,tnx! rigits-480 1kw,ant4ele yagi
JG1WKM	i enjoyed the contest.
JG1LFR	ftdx-5000 (200w) + hex beam, dp(40m), gp(80m)
JF1WCK	i enjoyed the contest.
JE1REU	i enjoyed the contest.
JA8RRF	i enjoyed the contest.
JA8DNV	put your comments here. use multiple lines if needed.
JA6BWH	75 years old
JA5QJX/0	thank you for organizing thecontest.
JA3VOV	i enjoyed the contest.
JA3UWB	i enjoyed the contest.
JA3AVO	sosv
JA2QVP	i enjoyed the contest.
JA2KKA	icom ic7100 100w12avq triband vertical, inv vee
JA2HYD	tnx fb contest !!
JA1CRJ	thank you so much for qso in this contest.
JA0GCY	i enjoyed the contest.
JA0BJY	cndx was ng, i joined contest partialy.
IZ3ZBP	73
IZ3KMY	livio.chiavegato@alice.it
IW2NUX	iw2nux
IW1BEF	great contest a pleasure !
IV3ICH	my first contest qrp! 73s de iv3ich
IU6FUB	attivit scandinavo contest 2018, ssb
IU5HES	rookie [CAT-overlay rookie] single-op all qrp 25/05/206

IT9OPR	worst propagation in all bands.i worked the contest for abt.2 hours only on 20m.thanks to all stations that i met on the sac.best 73's all the best.
IT9CKA	molta presenza stazioni scandinave , ottimo contest buona propagazione, solo 100watt antenna lop 15/20m e ts2000
ISO/OE2LCM	ant g5rv, qth nr olbia
IQ0RU	nice contest, hope see next year. small propagation.
I2WIJ	great to hear big signals on 10m. a pity very few stations were there.
I2WIJ	lot of action as usual. tnx for organizing the contest. bob, i2wij
HG8C	sorry, but lost about 50 received control number fm software bug.
HB9MXY	rig icom-7200; 100 w. antennas 2-element steppir resp. 40/80 m trap dipol; both 12 m over ground. tnx for the work behind the contest have reached more points than last year, so i'm very happy. hpe cu next year, vy 73 de hb9mxy, rudolf
HB9IRF	73 from switzerland
HB9EBC	op micke (ex sm0txm)
HB9ARF	elecraft k3 + kpa500 500 watts antennas inverted l on 3.5 mhz force 12 c-4s (2 elements on 14/21/28 mhz shortened dipole on 7 mhz)
HA9TA	e-mail szalkotibor@gmail.com ic7000, vertical
HA6NL	3 el yagi * gp-s icom756pro 100w
HA2MN	it was a nice contest with limited propagation. the activity was outstanding and i had many new-to-log qso's. many thanks for q's see you next time. rig ts-530sp 100 w ant is a single wire for all bands - 21 mtrs long and in 2-3 mtrs height above flat roof.
GW7MHB	1 qso yaesu ft450d running 20w thru loft dipole at io83ld 149m asl 15 qso yaesu ft857d running 20/50/100w thru ampro verticals at io83jg pentre halkyn 270m asl. wx rain es very windy contest. good sigs despite poor hf condx 1 qso yaesu ft450d running 20w thru loft dipole at io83ld 149m asl 15 qso yaesu ft857d running 20/50/100w thru ampro verticals io83jg pentre halkyn 270m asl. wx rain es very windy nice contest. good sigs despite poor hf condx
GW4W	taken entry, only had a few hours to spend.
G4MFX	heard an oh on 10m but could not work him.
G3ZGC	conditions good on 80m sat evening but plasma tv issues. sunday morning was poor on 80m. 20m better on sunday than saturday.
G3SWC	great fun as usual with plenty of activity! used sd for logging - excellent for sac!
G3RTU	enjoyed sadly only have poor antenna's, hope better next year. thanks
F6AUS	a lot of fun to find you again my friends
F5PHY	thank you for nice contest see you next time 73 ivan f5phy
F5MA	tnx for nice contest
F4VSE	f4vse soab 100w
F4GFT	the sac is always fun, scandinavian operators are very proficient and disciplined.
F3WT	checklog used very efficient logging sw ed5di
EW8G	65 watts
EW2EO	nice test!
EW1FM	tnx & 73!
EU8F	ft-817 ,ant delta-loop 84m
EU6AA	trx - ft-840 80w, ant - deltaloop 168m
EU4U	ew4am@tut.by
EI7M	just 5-6 hours on saturday afternoon and 2 hours on sunday morning. relaxed and fun. good ja on 40 and 80 to ei which is usually a challenging path so i assume condx from scandinavia must have been decent for a sunspot minima. nothing on 10 in spite of several attempts. 15 was marginal but ok.
EI/OK1NYD	20w, mp1c antenna
EA4BQ	kx-3, juma1000, gp for 20m
EA2WD	rig kenwood ts-570 d pow 85 w ant eaxbeam nice test-see you the next year
E78CB	rig(s) ts-430; antenna(s) dipoles
DO7ES	Tx flex 6300, ant titandx
DM3F	nice opening in the middle of the night on 20m to oh.
DL8UKW	fine contest, strong signals see u in 21019
DL8AAE	a lot of fun working the sac ssb 2018, even if the conditions
DL8AAE	were not good again between scandinavia and northern germany.
DL8AAE	three open bands only and a single multiplier on 15m.
DL6OAA	e-mail dl6oaa@darc.de checklog
DL2ZA	ts 850 s - 2x 19,5m - doppelzepp - hhnerleitung

DL2LFH	tx pwr 5 w. antenna 23 m wire. straight key. hand-typed log. 5 days deadline for log submission is way too short! please make it 14 days at least, better 4 weeks as it used to be. there is real life to deal with, short deadlines are only for retirees and those who log with computers. i am neither!
DL1THB	danke fr den contest ... bei kleiner antenne, migen bedingungen und wenig zeit war diesmal nicht mehr drin. 73 harald
DK5ZX	a nice contest again! thanks for all ufb qsos! hpe cuagn sn! vy 73 es gl! dk5zx / dieter ("ter")
DK3RA	ftdx5000mp +pa
DJ3XD	tnx contest
DJ3GE	qrp 5 watt from ft817 via tuner z11 to 2 ele-mini-yagi mfb23 11m high
DJ2QV	part time entry - difficult condx this year
DH0GDS	i dont like the upload-limitation, only 5 days after the contest.
DF4SR/P	rig kenwood ts-440s-at pwr 100w ant w3dzz style homemade portable qth jo62xc spreewald alt-schadow near berlin information lost by computercrash oh5bm e-rpt-number lost. lg5lg information lost, possible duplicate given reportnumber
CT1DRB	nice contest but lack of propagation
CR2X	remote operation -- tx qth azores isl
7S75AA	running 80w, using a simple (w3dzz) dipole very deep qsb at the end.
7S5S	elecraft k3, 100w to kt34xa cl-33 dipole
5Q6EE	Elecraft k3 = 100 watt + 10-15-20m=2 elm yagi + 40m/80m dipol. Operating from EDR Danish HQ station in Odense.
5B/UT5UT	very pleasure work again from pyrgos this year.
4K6FO	used kenwood ts590s radio and vertical antennas.

## Editorial

I want to thank you all for your contributions to this booklet. It is always a pleasure to edit the yearly publication and to find out that so many participants are coming back year after year. Thank you for that!

We will be back later this year and look forward to meet you all on the bands again. Hopefully the band conditions will behave a little more in our favorite.

If you want to contribute with pictures and stories in the next booklet, you are very welcome to e-mail them to me shortly after the 2019 contests. Use this address: [oz2i@edr.dk](mailto:oz2i@edr.dk)

The SAC Team wishes you all the best and a nice radio activity.

Vy 73 de OZ2I Henning  
Editor of SAC Booklet

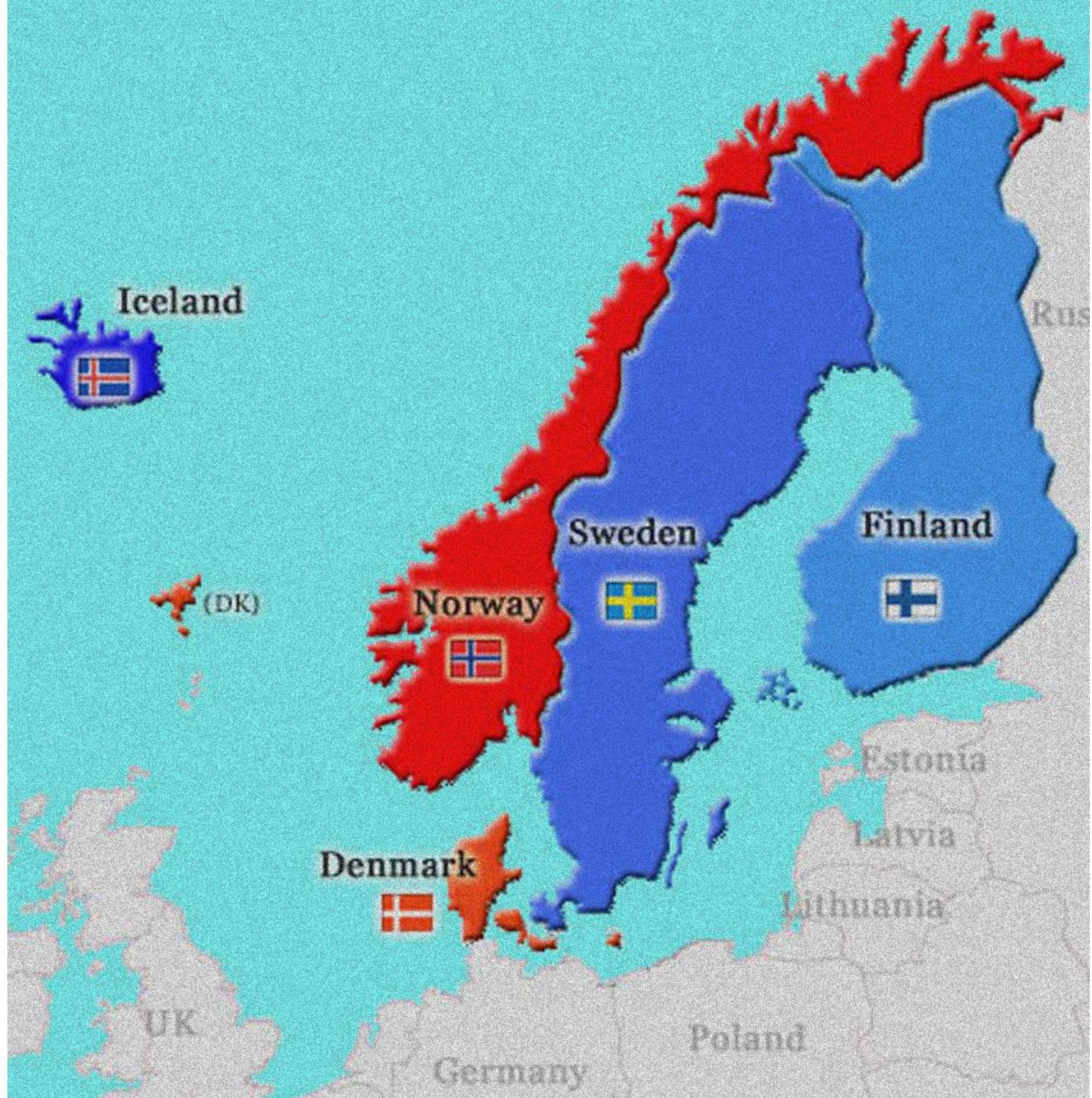


## SCANDINAVIAN ACTIVITY CONTEST 2019

**CW: 21-22 SEPTEMBER**  
**12:00 - 11:59 UTC**

**SSB: 12-13 OCTOBER**  
**12:00 - 11:59 UTC**

# Scandinavia



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