The secret of winning the region 1 VHF contest from far up north **5P51**

Who are 5P5T



OZ1FDH



OZ1DJJ/OX3LX



PA5DD/OZ1DOQ



OZ1GER

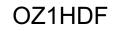


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OZ5BD/OX5T

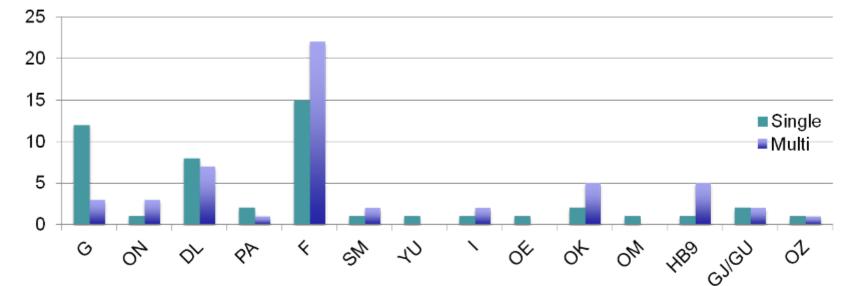


Why the region 1 VHF test?

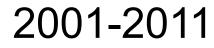
- It is the largest prize you can dream of in a VHF contest. It doesn't get any bigger!
- You need state of the art equipment and the best operators.
- OZ hasn't won since 1973, but sometimes miracles happen!
- My own dream started in 1979, -a few months after I got my license...

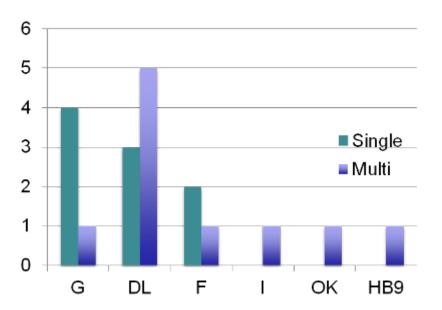


Distribution of winners by DXCC

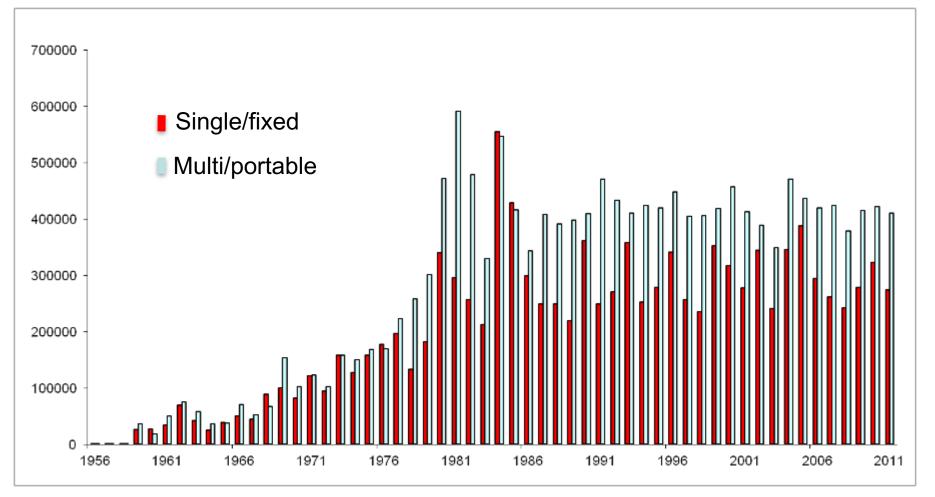


1956-2011





Winning scores1956-2011



Records: Points OK1KHI/P 1982, 591,000; QSO's DL0GTH 2006, 1245 QSO

1969 –the golden year for OZ!

1. 144	МН́z	-	stálé	QTH
		••		
1. 0Z10	Z		10	0 765
2. OZ60	L		9	5427
3. G2JF			8	6558
4, PD 3H			5	9792
5. DLØBI	R	_	5	6911
57. OK1	VHN		1	9551
69. OK1	VCW		1	7741
72. OK1	NQ		1	7347

DANISH VHF/UHF STATION



2. 144	MHz	-	přech. QTH
		•••	
1. SK6A			153497
2. SM7E			137873
3. OZ95			106873
4. DK30	GP		89867
5. 0Z3P	U/P		85 7 36
12. OK1			65 9 2 8
24. OK3	CD∜P		51223
37. OK3	HO/P		45 244

OZ1OZ 1969

- RX: 6CW4
- TX: QQE 06/4

x-tal controlled only AM and FM

- Ant 4x6 el
- Operators OZ9PZ, OZ2CV, OZ2ND and OZ5GN
- The trophy never arrived, -1969 was not a good year in OK.

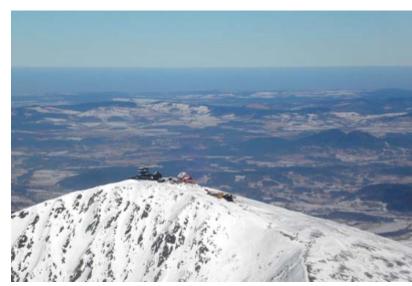






OK1KHI/P 1981

- Absolut all time record of 591,000 points and 1103 QSO
- A modest station achieved this fantastic result
 - 2 x PA0MS yagi
 - PA with QQE 06/40 80 w
 - 2nd RX didn't work



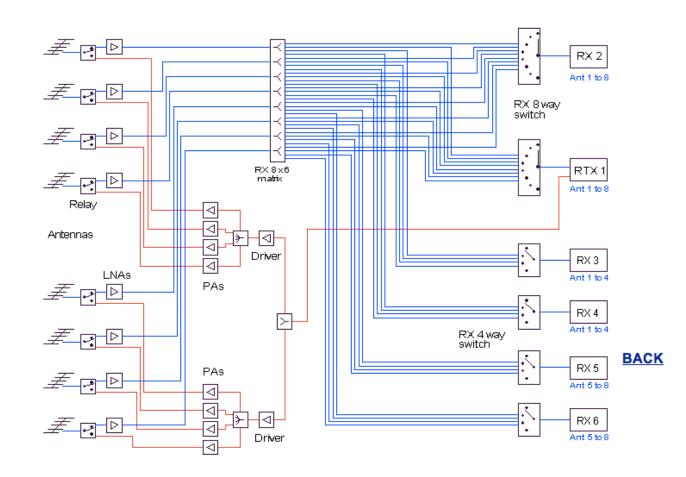


Sněžka 1602 m ASL HK29b

BIG set up: IO3V, winner 2001

- 3264 m ASL
- 8 x antenna systems
- 8 x PA
- 4 x 2nd RX

Winner with 987 QSO og 417,00 points



IO3V JN56



DR9A – winner 2006, 2009-2011

- QTH in Schwarzwald JN48 ca. 850 m ASL
- 38 m mast with multiple ant. systems
- Also winner of the UHF contest on 432 and 1296 MHz from the same QTH



Central European QRM!

OL4A





-a potential source of neighbour conflicts ©

How could it be possible to win the VHF test from OZ these days?



OZ1DJJ, OZ1FDH, PA5DD, OZ1GER, OZ5BD

You need:

- 1. More points than the other stations \bigcirc
- 2. The right QTH
- 3. Good equipment
- 4. Good operators
- 5. Knowledge of the band and activity
- 6. Good planning

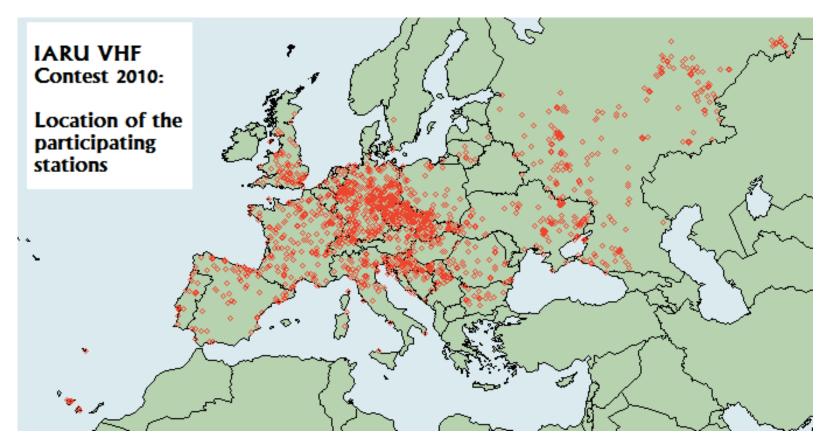
& blood, sweat and tears + LUCK!

Contest optimisation

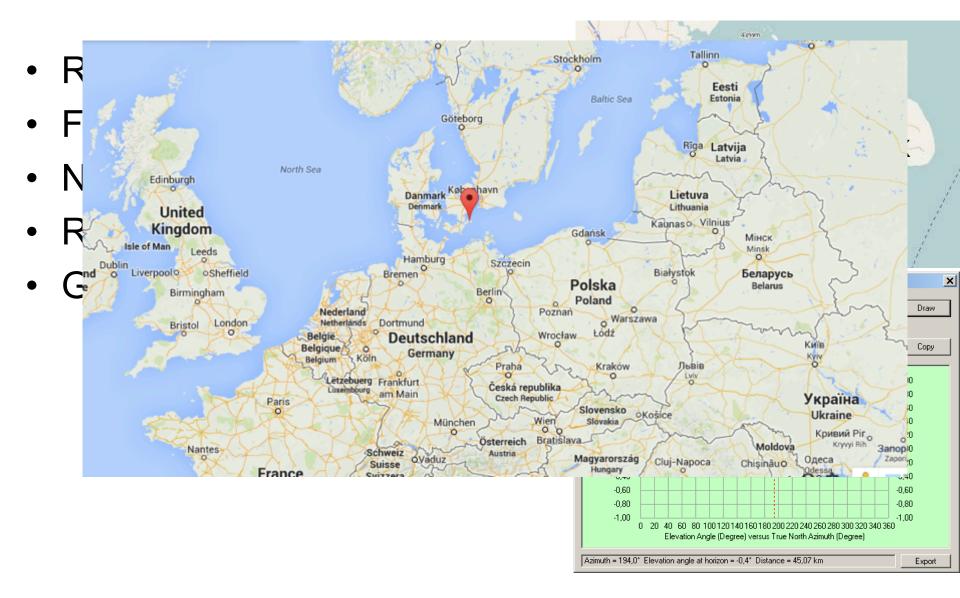
Contest impact = QTH x In Operator x Reliability² x VERP x beamwidth x Ant. gain x sports car effect

The activity has moved eastward

- From OK in 2011 there were 244 logs!! (OZ 1 log ⊗)
- More stn from SP, LY, UR
- Lower activity in England and Holland
- Better equipment



QTH Kongsbjerg, Moen JO64gx



View direction 140-200 deg



First attempt 2007 OZ1HDF, OZ1DJJ and OZ1FDH



4x4 el Tonna, 2x18 el M2 661 QSO's 283000 points (error rate 13%)







Antennas







Power

• 2007 Assorted generators

• 2008- 30 kw diesel





Fixing the high voltage cables.....



Visits by Murphy

- 2007 None
- 2008 Relay melt down
- 2009 None
- 2010 Blown screen supply
- 2011 Blown preamp
- 2012 Antenna crash, faulty ant relay
- 2013 None
- 2014 ?



Results 2007-2012

	QSO	Points
2007	661	284357
2008	630	283256
2009	664	314557
2010	720	338085
2011	831	417369
2012	662	321517

5P5T 2011 831 QSO 418,000 points (unchecked)



Final result 2011

Section: 145 MHz, Multi Operator

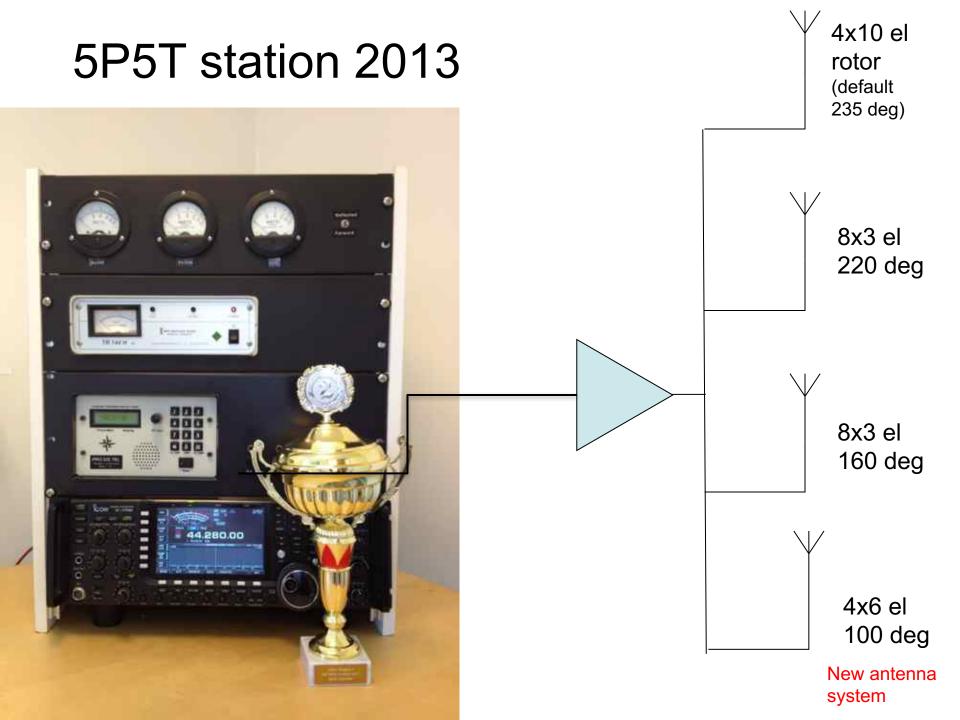
PI.	Call	Loc	QSOs	Points
1	DR9A	JN48EQ	947	410559
2	5P5T	JO64GX	808	402451
3	DLOGTH	JO50JP	1077	389579

September 2013 New operators



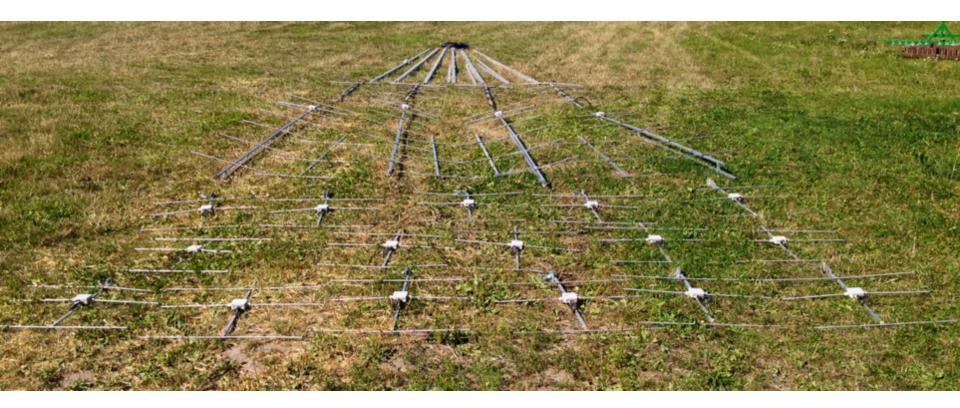
Final result 2013

Section: 145 MHz,	Multi Ope	rator			
Pl. Call	Loc.	QSOs	Points	-QSOs	Error-%
→ 1. 5P5T	J064GX	898	472547	18	2.1
2. OE1W	JN77TX	1035	443939	30	3.6
DLOGTH	J050JP	1087	409225	29	3.3
4. OL7M	J080FG	869	359162	19	2.3
5. SN7L	J070SS	883	355654	20	2.2
6. OL9W	JN99CL	819	352515	18	3.3
7. OK70	JN690U	924	339520	25	3.4
8. G8P	J001QD	745	315738	13	2.0
9. DR2X	J040QL	867	309396	26	3.6
10. OM3W	JN99CH	696	287284	17	2.9

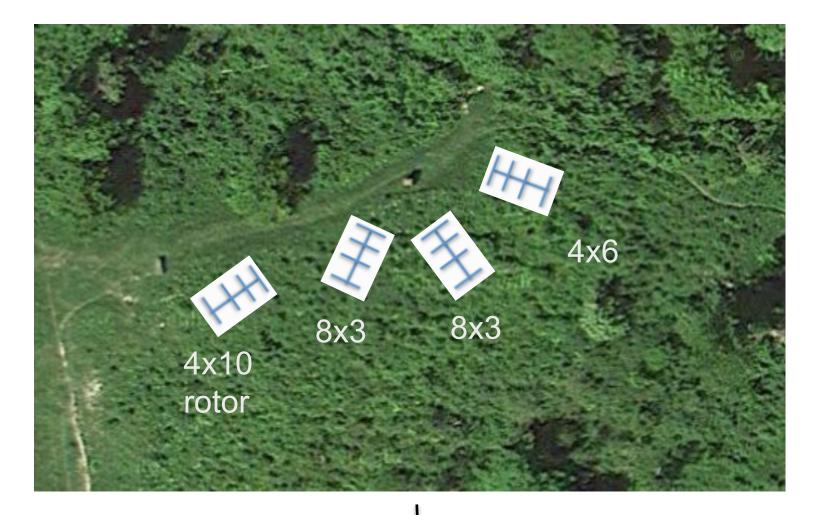


Antennas

• 4x10 el DK7ZB, 4x6 el OZ5HF, 16x3 el DK7ZB



Placement of antennas



20 m

Operator position



- Horsetrailer (without horse)
- Overview and simplicity
 - Only 1 turnable antenna system
 - Limit the number of buttons, cables and mess
- Rackmounted equipment
- Screens for 1st and 2nd operator

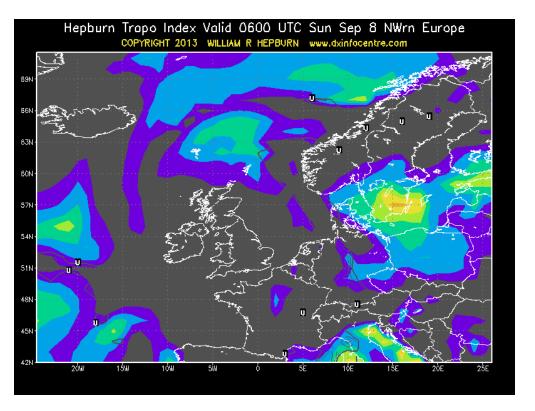
Facts

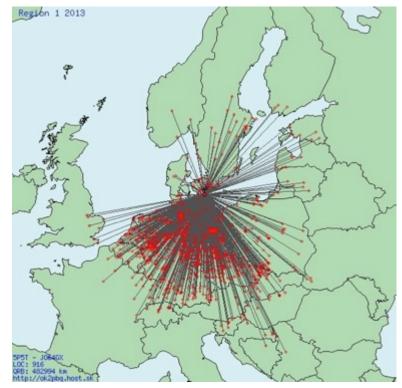
- PA5DD, OZ1DJJ, OZ1GER & OZ1FDH
- 916 QSO
- 482870 points (527/QSO)
- 123 loc
- 25 DXCC
- ODX YT1VP 1321 km

Reg 1 2013	Numb	er	of	QSOs	pe:	r DXCC
	9A			UA2		2
1360	DL	:50	9	UR		3
Ţ	E7	2	1	YL	a (6
	ES	2	7	YU	a (1	2
	F	: 2	20			
95	G		7			
Jest E	HA		7			
- Star	HB		8			
Contraction of	LA		3			
werger -	LX		1			
12	LY		5			
~ 3	OE		0			
and a second	OH		3			
. Low	OK		9			
· M	OM		5			
Emil	ON		3			
why a						
Z Z	oz		9			
ģ	PA		2			
<u> </u>	S5		1			
$\sim \sim$	SM		0			
5P5T - J064GX LOC: 916 QRB: 482769 km	SP	: 6	7			

http://ok2pbg.hos

Condx were good, but not fantastic





For once we appeared to be in the sweet spot. Main competitiors were DL0GTH and OE1W

5P5T rx at UY4W KN18OT, 1039 km

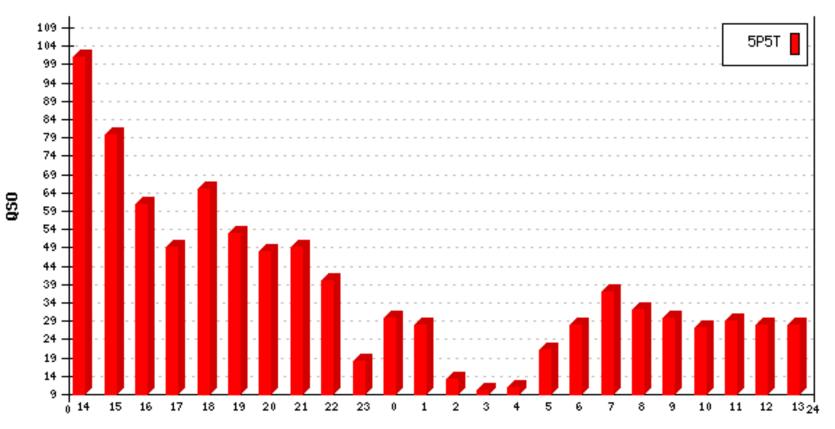


QSO/hour, good activity during night

VHF Contest 2013 144 MHz

VHFContest.net

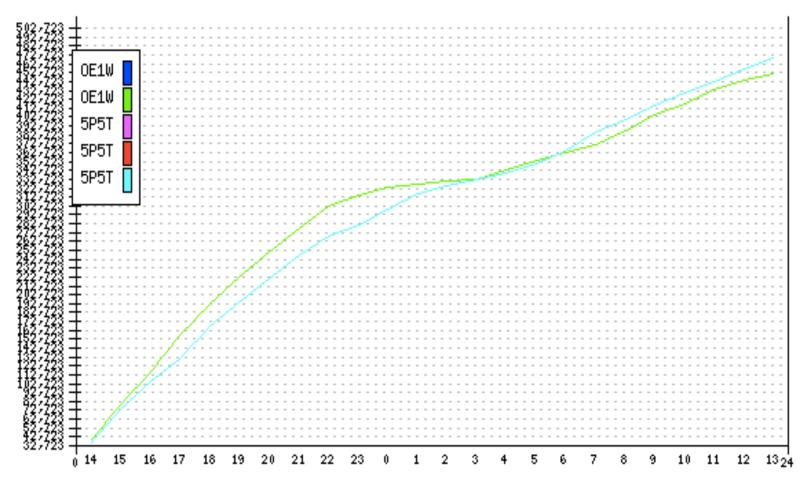
QS0/hod



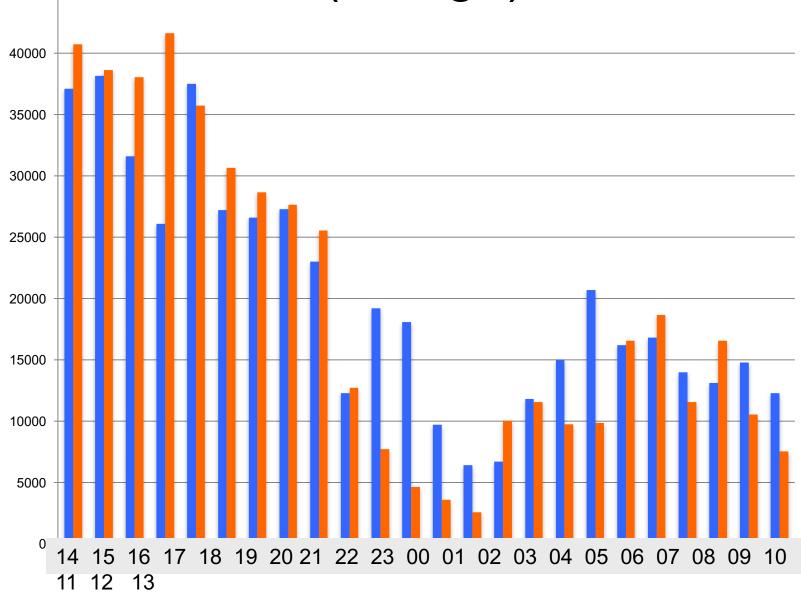
Time

OE1W had the lead until 0600

km/hour



Points/time 5P5T (blue) vs. OE1W



Equipment

N.

11115

Setup & operating

Food!

 Chili con carne a'la HAM

 PA heating of butter pastry ^(C)

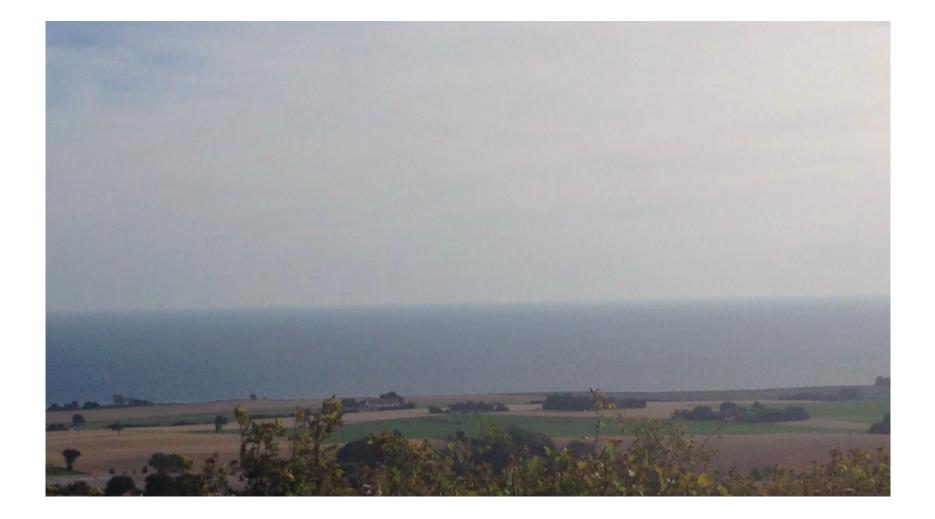


What does it take to win from up north?

- A good QTH
- Simplicity for the operating position
- A very attentive 2nd operator
- Equipment 99,9% reliable
- At least 16 dB ant gain, wide horisontal angle
- Hard work!
- Endurance (every year!)
- Luck (condx and Murphy)
- Fried fish with parsly sauce



Video saturday evening



The end

- There is no other VHF contest as the september contest!
- You may win or loose, but the fun of the effort and teamwork is worth it all.
- Guest operators, new members and visitors are VERY welcome
- CU! in the next contest

