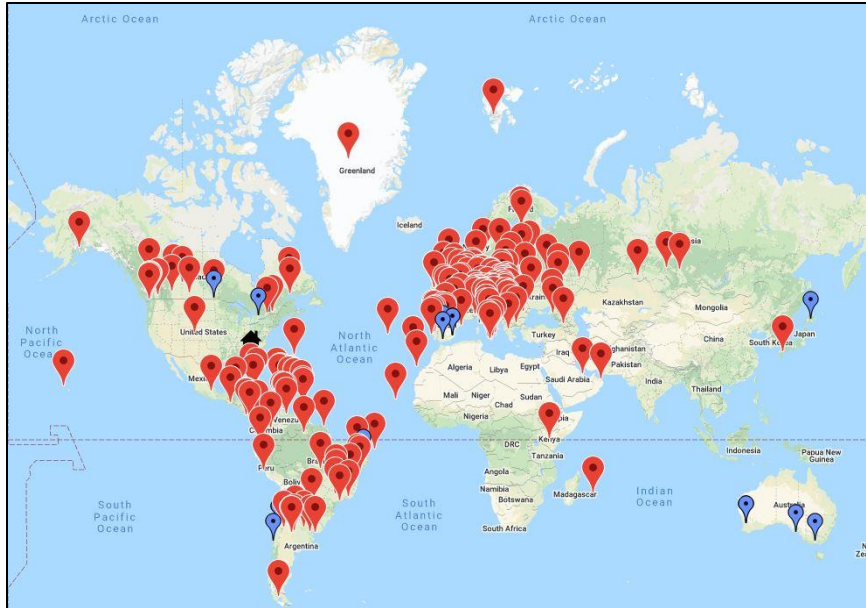


SH5 Reported statistics from N4XL 2021 CQWW DX SSB

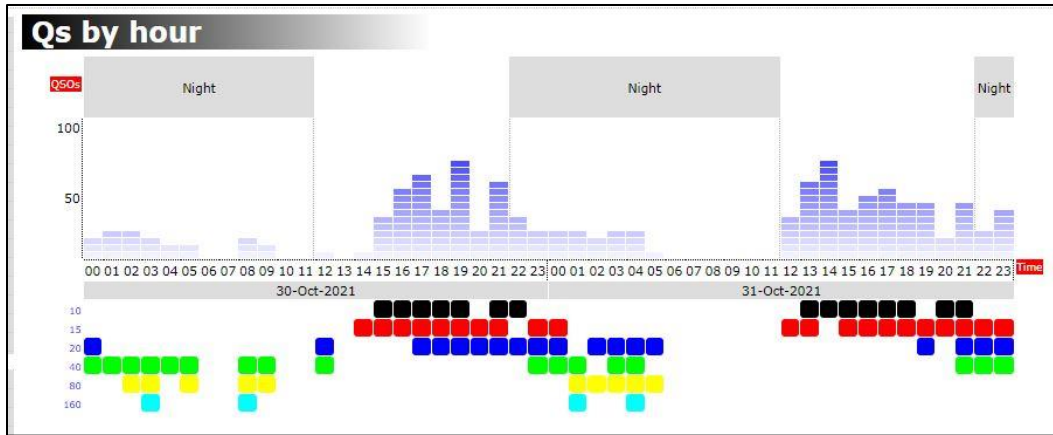
- N1MM reported time on as 33 hr 39 min. SH5 said 30 hrs 8 min which seems more reasonable.
- Worked 110 countries. DXCC in one weekend.
- 8 dupes (0.81%)
- Grid squares worked. List and Fields map.

Fields map																											
AR	BR	CR	DR	ER 1	FR	GR	HR	IR	JR	KR	LR	MR	NR	OR	PR	QR	RR										
MQ	RQ	CQ	DQ	BQ	FQ	GQ 1	HQ	IQ	JP 2	KQ	LQ	MQ	NQ	OQ	PQ	QQ	RQ										
AP	BP 3	CP	DP	EP	FP	GP	HP 1	IP	JP 2	KP 6	LP	MP	NP	OP	PP	QP	RP										
AO	BO	CO 1	DO 16	EO	FO 6	GO	HO	IO 35	JO 91	KO 21	LO 4	MO 1	NO 2	OO	PO	QO	RO										
AN	BN	CN 9	DN	EN 3	FN 30	GN	HN	IN 53	JN 215	KN 46	LN 1	MN	NN	ON	PN	QN 3	RN										
AM	BM	CM 1	DM 4	EM 1	FM 4	GM	HM 3	IM 30	JM 17	KM 5	LM	NM	NM	OM	PM 17	QM 2	RM										
AL	BL 9	CL	DL 2	EL 3	FL 6	GL	HL	IL 8	JL	KL 1	LL 3	NL	NL	OL	PL	QL	RL										
NK	BK 4	CK	DK	EK 28	FK 80	GK 2	HK 3	IK	JK	LK	MK	NK	OK	PK	QK	RK	SK										
AO	BO	CO	DO	EJ 6	FJ 9	GJ 5	HJ	IJ 1	JJ 3	KJ 2	LJ	MJ	NJ	OJ	PJ	QJ	RJ										
AI	BI	CI	DI	EI 4	FI 5	GI	HI 6	IJ	JJ	KJ	LJ	MJ	NJ	OJ	PJ	QJ	RJ										
AH	BH	CH	DH	EH 5	FH 5	GH 35	HH 2	IH 1	JH	KH	LH	MH	NH	OH	PH	QH 1	RH										
AG	BG	CG	DG	EG	FG 4	GG 38	HG	IG	JG	KG 3	LG 1	HG	NG	OG	PG	QG	RG										
AF	BF	CF	DF	EF	FF 39	GF 12	HF	IF	JP	KP	LP	MP	NP	OP 2	PP 1	QP 1	RP 4										
AE	BE	CE	DE	EE	FE 2	GE	HE	IE	JE	KE	LE	ME	NE	OE	PE	QE	RE										
AD	BD	CD	DD	ED	FD 2	GD	HD	ID	JD	KD	LD	MD	ND	OD	PD	QD	RD										
AC	BC	CC	DC	EC	FC	GC	HC	IC	JC	KC	LC	MC	NC	OC	PC	QC	RC										

- Provides list of each call worked and how many times each.
- Maps of where stations are that you worked. Can be broken done by band. Here is my 20 meter map.



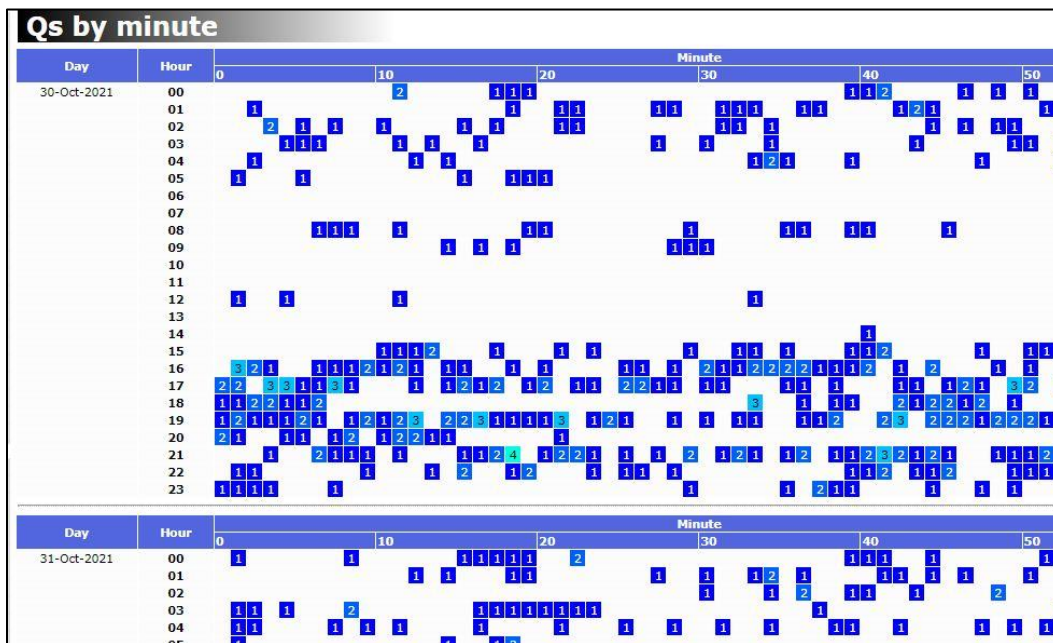




### Summary

Band	CW		Digital		Phone		All		Countries	Qs Pts	Map
	QSOs	%	QSOs	%	QSOs	%	QSOs	%			
160					8	0.8	8	0.8	4		map
80					55	5.6	55	5.6	30		map
40					101	10.3	101	10.3	48		map
20					244	24.8	244	24.8	81		map
15					277	28.2	277	28.2	89		map
10					297	30.2	297	30.2	79		map
All					982	100.0	982	100.0			map

- Q's by minute. Both numbers and rate.



## One minute rates

Qs per minute	Minutes list				
4	30-Oct-2021 21:18	31-Oct-2021 14:33	31-Oct-2021 14:34		
	30-Oct-2021 16:01	30-Oct-2021 17:03	30-Oct-2021 17:04	30-Oct-2021 17:07	30-Oct-2021 17:49
3	30-Oct-2021 18:33	30-Oct-2021 19:12	30-Oct-2021 19:16	30-Oct-2021 19:21	30-Oct-2021 19:42
	30-Oct-2021 21:41	31-Oct-2021 12:56	31-Oct-2021 13:38	31-Oct-2021 13:39	31-Oct-2021 13:41
	31-Oct-2021 13:45	31-Oct-2021 13:46	31-Oct-2021 14:32	31-Oct-2021 14:43	31-Oct-2021 14:44
	31-Oct-2021 16:07	31-Oct-2021 17:34	31-Oct-2021 18:55	31-Oct-2021 21:06	
2	30-Oct-2021 00:11	30-Oct-2021 00:41	30-Oct-2021 01:43	30-Oct-2021 02:03	30-Oct-2021 04:34
	30-Oct-2021 15:13	30-Oct-2021 15:41	30-Oct-2021 15:52	30-Oct-2021 15:56	30-Oct-2021 15:58
	30-Oct-2021 16:02	30-Oct-2021 16:09	30-Oct-2021 16:11	30-Oct-2021 16:30	30-Oct-2021 16:33
	30-Oct-2021 16:34	30-Oct-2021 16:35	30-Oct-2021 16:36	30-Oct-2021 16:40	30-Oct-2021 16:44
	30-Oct-2021 16:56	30-Oct-2021 17:00	30-Oct-2021 17:01	30-Oct-2021 17:15	30-Oct-2021 17:17
	30-Oct-2021 17:20	30-Oct-2021 17:25	30-Oct-2021 17:26	30-Oct-2021 17:46	30-Oct-2021 17:50
	30-Oct-2021 17:52	30-Oct-2021 17:53	30-Oct-2021 17:56	30-Oct-2021 17:58	30-Oct-2021 18:02
	30-Oct-2021 18:03	30-Oct-2021 18:06	30-Oct-2021 18:42	30-Oct-2021 18:44	30-Oct-2021 18:45
	30-Oct-2021 18:47	30-Oct-2021 18:58	30-Oct-2021 18:59	30-Oct-2021 19:01	30-Oct-2021 19:05
	30-Oct-2021 19:09	30-Oct-2021 19:11	30-Oct-2021 19:14	30-Oct-2021 19:15	30-Oct-2021 19:24
	30-Oct-2021 19:38	30-Oct-2021 19:41	30-Oct-2021 19:44	30-Oct-2021 19:45	30-Oct-2021 19:46
	30-Oct-2021 19:48	30-Oct-2021 19:49	30-Oct-2021 19:50	30-Oct-2021 19:55	30-Oct-2021 20:00
	30-Oct-2021 20:08	30-Oct-2021 20:11	30-Oct-2021 20:12	30-Oct-2021 21:06	30-Oct-2021 21:17
	30-Oct-2021 21:21	30-Oct-2021 21:22	30-Oct-2021 21:29	30-Oct-2021 21:32	30-Oct-2021 21:36
	30-Oct-2021 21:40	30-Oct-2021 21:42	30-Oct-2021 21:44	30-Oct-2021 21:51	30-Oct-2021 22:15
	30-Oct-2021 22:19	30-Oct-2021 22:41	30-Oct-2021 22:45	30-Oct-2021 22:56	30-Oct-2021 23:37
	30-Oct-2021 23:53	31-Oct-2021 00:22	31-Oct-2021 00:52	31-Oct-2021 01:34	31-Oct-2021 02:36
	31-Oct-2021 02:48	31-Oct-2021 03:08	31-Oct-2021 05:18	31-Oct-2021 12:20	31-Oct-2021 12:22
	31-Oct-2021 12:49	31-Oct-2021 12:50	31-Oct-2021 12:53	31-Oct-2021 12:55	31-Oct-2021 12:57
	31-Oct-2021 12:59	31-Oct-2021 13:01	31-Oct-2021 13:02	31-Oct-2021 13:17	31-Oct-2021 13:37
	31-Oct-2021 13:49	31-Oct-2021 13:52	31-Oct-2021 13:53	31-Oct-2021 13:58	31-Oct-2021 13:59
	31-Oct-2021 14:02	31-Oct-2021 14:07	31-Oct-2021 14:12	31-Oct-2021 14:14	31-Oct-2021 14:19
	31-Oct-2021 14:22	31-Oct-2021 14:27	31-Oct-2021 14:29	31-Oct-2021 14:35	31-Oct-2021 14:36
	31-Oct-2021 14:37	31-Oct-2021 14:38	31-Oct-2021 14:40	31-Oct-2021 14:41	31-Oct-2021 14:42
	31-Oct-2021 15:26	31-Oct-2021 15:29	31-Oct-2021 15:41	31-Oct-2021 15:43	31-Oct-2021 15:47

## Rates

Period, min.	QSOs	QSOs per minute	QSOs per hour	From		To	
				Time	QSO #	Time	QSO #
10	24	2.4	144	31-Oct-2021 14:32	652	31-Oct-2021 14:42	675
20	38	1.9	114	31-Oct-2021 14:25	646	31-Oct-2021 14:45	683
30	48	1.6	96	31-Oct-2021 14:16	636	31-Oct-2021 14:45	683
60	86	1.4	86	31-Oct-2021 13:37	582	31-Oct-2021 14:37	667
120	134	1.1	67	31-Oct-2021 12:49	552	31-Oct-2021 14:49	685

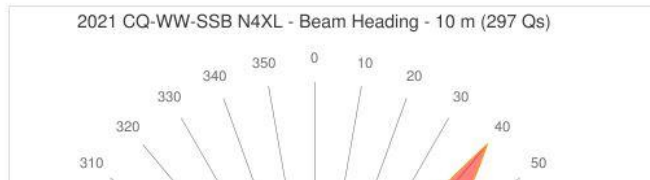
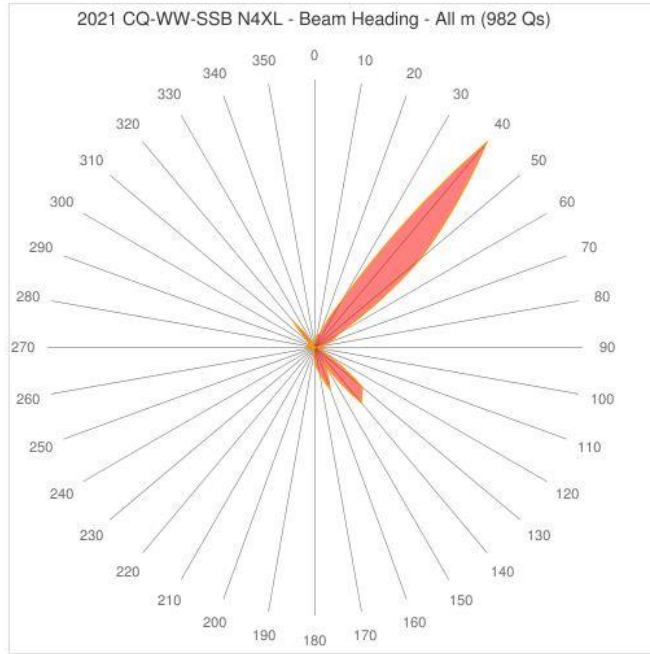




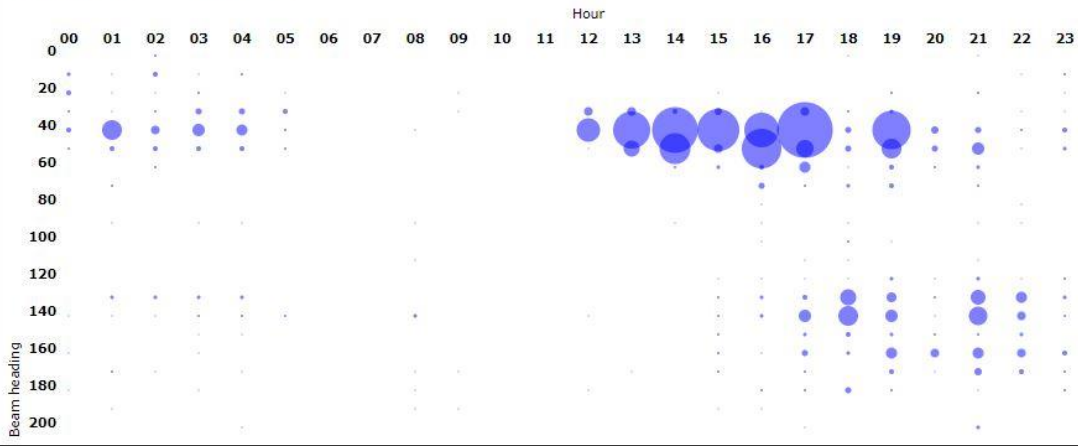
- Q's by beam heading. Percentage breakdown. Maps available of stations worked on heading.

Beam heading											
Heading, °	QSOs								All	%	Map
	160	80	40	20	15	10					
000 - 009				3			1	4	0.4	map	
010 - 019	2	5	3	4				14	1.4	map	
020 - 029	1	3	3	7	1	1	1	16	1.6	map	
030 - 039	2	3	7	22	16	9		59	6.0	map	
040 - 049		19	39	64	82	91		295	30.0	map	
050 - 059	1	5	18	34	38	56		152	15.5	map	
060 - 069		1	1	9	7	12		30	3.1	map	
070 - 079		1	1	3	8	5		18	1.8	map	
080 - 089				1		1		2	0.2	map	
090 - 099		2	2	2	1	2		9	0.9	map	
100 - 109					3	1		4	0.4	map	
110 - 119			1	1	1	1		4	0.4	map	
120 - 129				4	5	5		14	1.4	map	
130 - 139	1	3	6	19	16	23		68	6.9	map	
140 - 149		4	7	17	19	32		79	8.0	map	
150 - 159				3	6	12		21	2.1	map	
160 - 169			1	11	15	22		49	5.0	map	
170 - 179	1	2	2	7	8	8		28	2.9	map	
180 - 189		1	1	6	6	4		18	1.8	map	

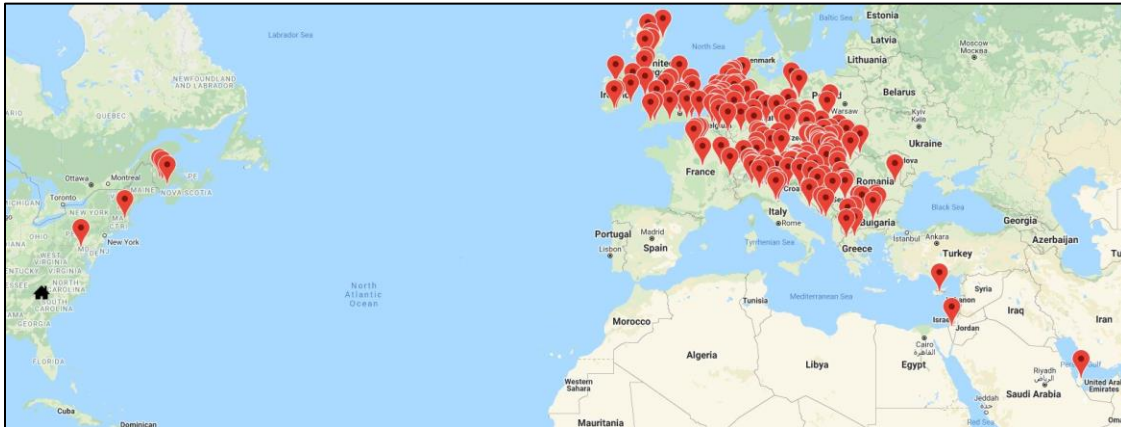
## Beam heading



## Beam heading by hour



A map of station locations worked on beam heading 40-49 degrees



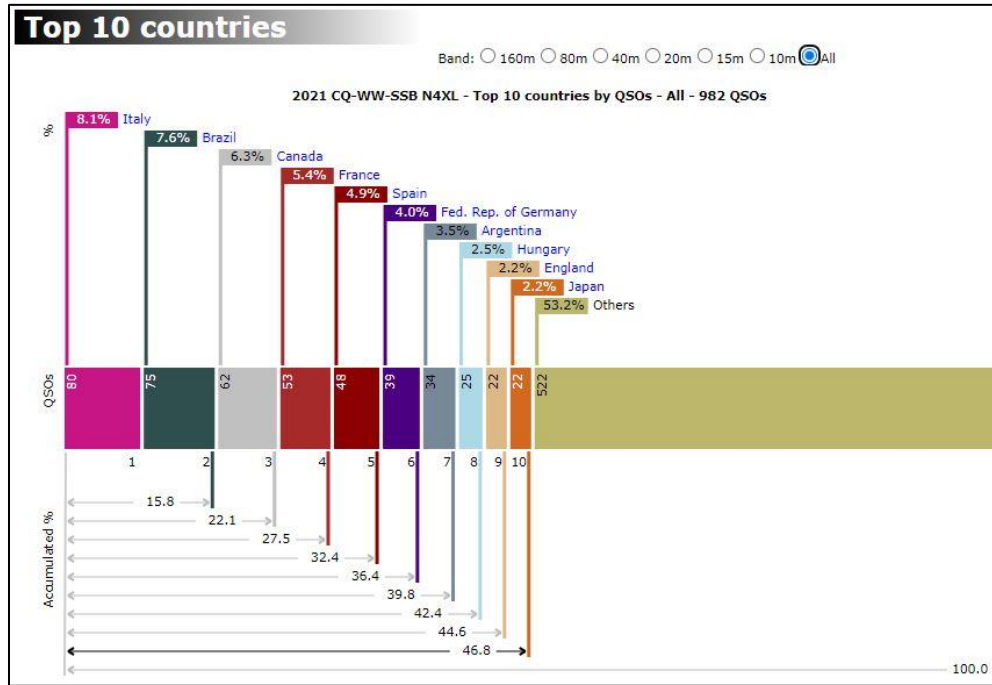
- Break times. (Default is 5 min without a q means a break. You can change it.)

Break time							
#	Time	From	QSO #	Time	To	QSO #	Break time, HH:mm
1	30-Oct-2021 00:11	2		30-Oct-2021 00:17	3		00:06
2	30-Oct-2021 00:19	5		30-Oct-2021 00:39	6		00:20
3	30-Oct-2021 00:41	9		30-Oct-2021 00:46	10		00:05
4	30-Oct-2021 00:50	12		30-Oct-2021 00:58	13		00:08
5	30-Oct-2021 01:02	14		30-Oct-2021 01:18	15		00:16
6	30-Oct-2021 01:22	17		30-Oct-2021 01:27	18		00:05
7	30-Oct-2021 01:37	24		30-Oct-2021 01:42	25		00:05
8	30-Oct-2021 01:44	28		30-Oct-2021 01:51	29		00:07
9	30-Oct-2021 01:51	29		30-Oct-2021 02:03	30		00:12
10	30-Oct-2021 02:10	34		30-Oct-2021 02:15	35		00:05
11	30-Oct-2021 02:22	38		30-Oct-2021 02:31	39		00:09
12	30-Oct-2021 02:34	41		30-Oct-2021 02:44	42		00:10
13	30-Oct-2021 02:54	47		30-Oct-2021 03:04	48		00:10
14	30-Oct-2021 03:06	50		30-Oct-2021 03:11	51		00:05
15	30-Oct-2021 03:16	53		30-Oct-2021 03:27	54		00:11

- Generates .kmz files for use with programs to display worked stations (i.e.: Google Earth)
- CQ and ITU Zones worked by band. Map available.
- Possible Errors



- Various charts. Examples include
  - Top 10 Countries. Can be by band.



- Q's by band

