



Mobile Operations

JUAN LOPEZ JR.

AC6ZM

MARCH 24-25, 2020

Operating Capabilities

- ▶ **Modes**

- ▶ 20 meters (SSB) & 40 meters (SSB & CW)

- ▶ **Rig**

- ▶ Icom-706 MKII @ 70 watts
- ▶ Tuner: LDG IT-100

- ▶ **Antenna**

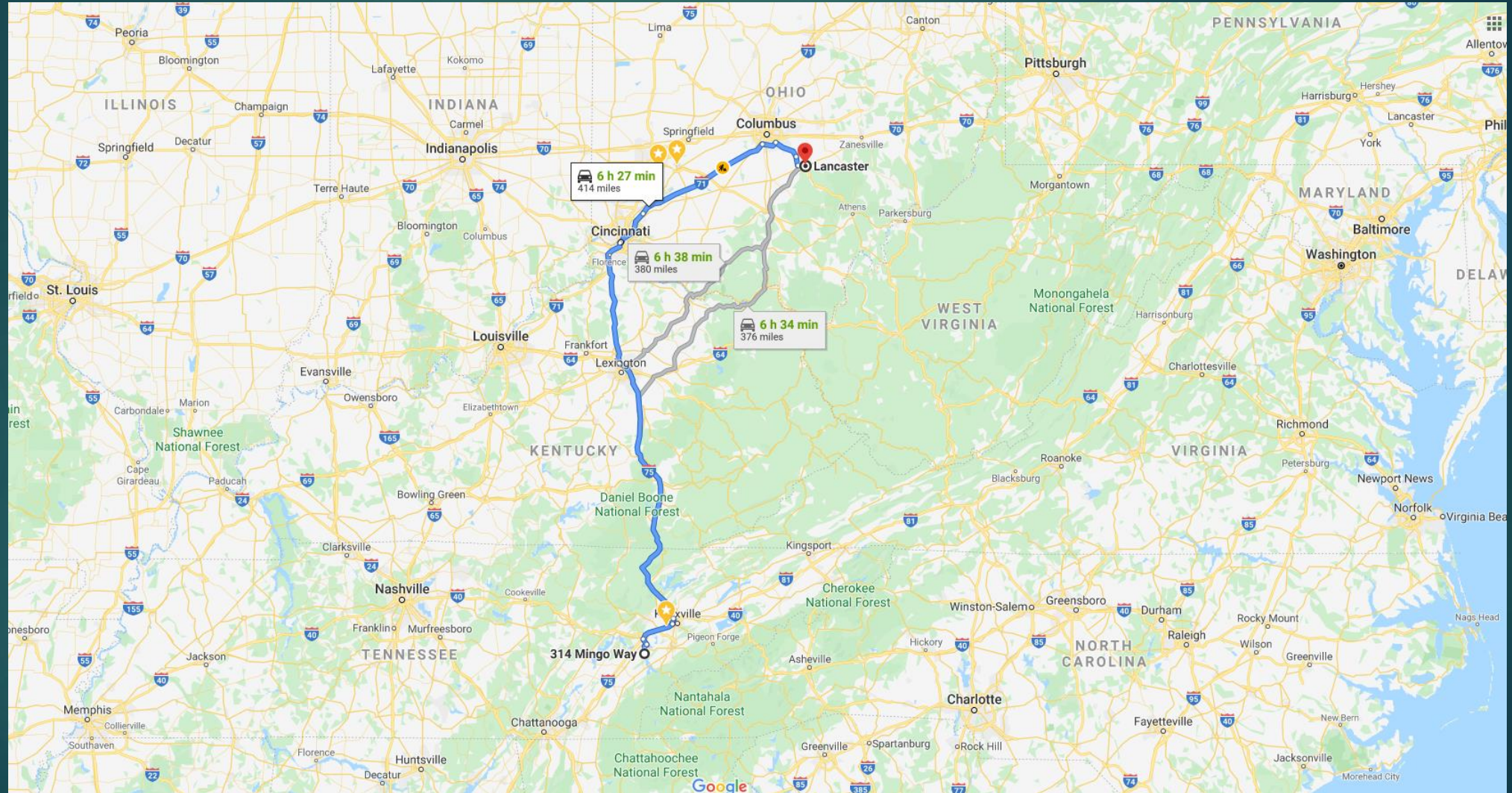
- ▶ Hustler Vertical – Triple magnet base with 2 guy lines
- ▶ Mast: MO-4 with Resonators: RM-20S and RM40S

- ▶ **Speaker**: Sony Bluetooth amplified speaker

- ▶ **CW Key**: American Morse Equipment Mini-B Miniature Single Lever



Route - 75 North



Setup in the Vehicle



Reverse Beacon Network

11:47 48%

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REVERSE BEACON NETWORK

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showing spots for DX call: AC6ZM rows to show: 15

search spot by callsign

de	dx	freq	cq/dx	snr	speed	time
WE9V	AC6ZM	7040.0	CW CQ	19 dB	21 wpm	1518z 24 Mar
K9LC	AC6ZM	7040.0	CW CQ	20 dB	21 wpm	1518z 24 Mar
W3OA	AC6ZM	7040.0	CW CQ	21 dB	21 wpm	1517z 24 Mar
W2AXR	AC6ZM	7039.9	CW CQ	18 dB	21 wpm	1517z 24 Mar
AC0C	AC6ZM	7053.8	RTTY CQ	22 dB	45 bps	0159z 23 Mar
S50ARX	AC6ZM	7053.8	RTTY CQ	14 dB	45 bps	0153z 23 Mar
WE9V	AC6ZM	7053.8	RTTY CQ	14 dB	45 bps	0153z 23 Mar
DJ9IE	AC6ZM	7053.8	RTTY CQ	16 dB	45 bps	0152z 23 Mar
K1TTT	AC6ZM	7053.8	RTTY CQ	46 dB	45 bps	0152z 23 Mar
KM3T	AC6ZM	7053.8	RTTY CQ	39 dB	45 bps	0152z 23 Mar
OL7M	AC6ZM	7053.8	RTTY CQ	17 dB	45 bps	0152z 23 Mar
K7EG	AC6ZM	7053.8	RTTY CQ	13 dB	45 bps	0152z 23 Mar
K07SS	AC6ZM	7053.8	RTTY CQ	27 dB	45 bps	0152z 23 Mar
NC7J	AC6ZM	7053.8	RTTY CQ	17 dB	45 bps	0152z 23 Mar
WZ7I	AC6ZM	7053.8	RTTY CQ	45 dB	45 bps	0152z 23 Mar

← → ↻ Not secure | reversebeacon.net/dxsd1/dxsd1.php?f=0&c=ac6zm&t=dx

K9TM-4	AC6ZM	7006.1	CW CQ	20 dB	23 wpm	2218z 25 Mar
W1NT-2	AC6ZM	7052.0	CW CQ	10 dB	30 wpm	2211z 25 Mar
K3PA	AC6ZM	7052.1	CW CQ	9 dB	30 wpm	2211z 25 Mar
K1TTT	AC6ZM	7052.0	CW CQ	19 dB	30 wpm	2211z 25 Mar
WZ7I	AC6ZM	7052.0	CW CQ	28 dB	29 wpm	2211z 25 Mar
N9YKE	AC6ZM	7052.0	CW CQ	11 dB	30 wpm	2211z 25 Mar
KM3T	AC6ZM	7052.0	CW CQ	17 dB	30 wpm	2211z 25 Mar
W4KAZ	AC6ZM	7052.0	CW CQ	31 dB	30 wpm	2211z 25 Mar
W1NT-6	AC6ZM	7052.0	CW CQ	17 dB	31 wpm	2211z 25 Mar
KM3T-2	AC6ZM	7052.0	CW CQ	17 dB	31 wpm	2211z 25 Mar
W3LPL	AC6ZM	7052.0	CW CQ	19 dB	30 wpm	2211z 25 Mar
WE9V	AC6ZM	7052.0	CW CQ	18 dB	30 wpm	2211z 25 Mar
W1NT	AC6ZM	7052.0	CW CQ	22 dB	30 wpm	2211z 25 Mar
K9IMM	AC6ZM	7052.0	CW CQ	10 dB	30 wpm	2211z 25 Mar
NN3RP	AC6ZM	7052.0	CW CQ	16 dB	30 wpm	2211z 25 Mar
N5RZ	AC6ZM	7052.0	CW CQ	16 dB	30 wpm	2211z 25 Mar
W2AXR	AC6ZM	7052.0	CW CQ	16 dB	30 wpm	2211z 25 Mar
KQ8M	AC6ZM	7052.1	CW CQ	17 dB	30 wpm	2211z 25 Mar
W9XG	AC6ZM	7052.1	CW CQ	12 dB	30 wpm	2211z 25 Mar
W8WWW	AC6ZM	7052.0	CW CQ	31 dB	30 wpm	2211z 25 Mar
K9TM-4	AC6ZM	7052.0	CW CQ	10 dB	30 wpm	2210z 25 Mar
W8WTS	AC6ZM	7052.0	CW CQ	20 dB	30 wpm	2210z 25 Mar
W3LPL	AC6ZM	7031.2	CW CQ	31 dB	30 wpm	1958z 25 Mar
KM3T-2	AC6ZM	7031.2	CW CQ	32 dB	31 wpm	1958z 25 Mar
W9XG	AC6ZM	7031.2	CW CQ	16 dB	29 wpm	1958z 25 Mar
NA0B	AC6ZM	7031.3	CW CQ	53 dB	27 wpm	1957z 25 Mar
VE6WZ	AC6ZM	7031.2	CW CQ	19 dB	31 wpm	1956z 25 Mar
WZ7I	AC6ZM	7031.2	CW CQ	36 dB	30 wpm	1956z 25 Mar
N5RZ	AC6ZM	7031.2	CW CQ	38 dB	30 wpm	1955z 25 Mar
W2LB	AC6ZM	7031.2	CW CQ	17 dB	30 wpm	1955z 25 Mar
W3OA	AC6ZM	7031.2	CW CQ	32 dB	31 wpm	1955z 25 Mar
W8WTS	AC6ZM	7031.2	CW CQ	31 dB	32 wpm	1955z 25 Mar
WE9V	AC6ZM	7031.2	CW CQ	31 dB	31 wpm	1955z 25 Mar
W8WWW	AC6ZM	7031.2	CW CQ	35 dB	32 wpm	1955z 25 Mar

Results

- ▶ Best band to work was 40 meters
- ▶ Operating range
 - ▶ 480-610 miles day time
 - ▶ 1,100-1,300 miles night time
- ▶ Consistent reports were S7-S9



CALL	FREQ	MODE	DTG	QTH	NAME	RST RCVD	RST SENT
AA4WT	7.040	CW	1527z	Cobb, GA	Mike	569	559
K2QJ	7.052	CW	0142z	Wake, NC	Bob	589	579
WA2BQU	7.052	CW	2325z	Vero Beach, FL	Frank	599	599
KN4EUK	7.178	SSB	0400z	Pinellas, FL	Bob	59+10	59
KB9WLF	7.235	SSB	0200z	Port Richey, FL	Carl	59+10	59
N0GFV	7.235	SSB	0140z	Cass, MN	Lee	59	57

Conclusion

- ▶ Need to make some modifications – minor
- ▶ Removable radio head is a plus!
- ▶ Will bond ground strap from antenna to car chassis to reduce noise
- ▶ Need to develop route plan
 - ▶ Identify counties crossings on route
- ▶ Try 20 meter CW next run
- ▶ Install 80 meter antenna options
- ▶ Tuner made changing modes easy
- ▶ Resonator changes takes average <10 minutes

Future Field Trials

- ▶ County activation during QSO Parties
 - ▶ Georgia QSO Party: April 11-12, 2020
 - ▶ TN QSO Party: Sept 2020

The Georgia QSO Party



Tennessee QSO Party

sponsored by the
Tennessee Contest Group

