

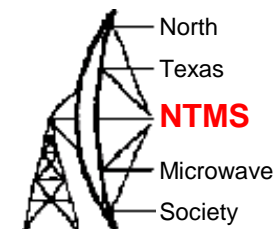
NTMS Beacons Update

W5LUA

May 10, 2025

Rev A

NTMS Beacon Status Oct 30, 2022



North Texas Microwave Society area Beacon Status updated October 30, 2022 by Al Ward W5LUA

Freq (MHz)	Call	Grid	Power	Antenna	Height above Ground	Status		Frequency Stabilization	Freq Reference	Keying
50.073	W5HN/B	EM13sj	.5 W	Halo	180 ft	OFF THE AIR (1)	HB	Crystal	12.51825 MHz	on/off
144.280.2	W5HN/B	EM13sj	1.5 W	Halo	180 ft	ON THE AIR	HB	Crystal	12.0233 MHz	on/off
222.060	AA5C/B	EM13se	8 W	Folded Dipole	53 ft	ON THE AIR	HB	PLL	10 MHz	on/off
432.370	N5PYK/B	DM93bm	50 W	Yagi towards DFW	70 ft	ON THE AIR		XCVR		on/off
432.380	W5HN/B	EM13kf	.8 W	Halo	280 ft	ON THE AIR	HB	ADF4351	10 MHz OCXO	on/off
903.050	W5HN/B	EM13kf	9 W	Alford Slot	280 ft	ON THE AIR	HB	N5AC PLL	10 MHz OCXO	on/off
1296.375	W5HN/B	EM13kf	3 W	Alford Slot	280 ft	ON THE AIR	HB	N5AC PLL	10 MHz OCXO	on/off
2304.366	W5HN/B	EM13kf	4 W	Alford Slot	280 ft	ON THE AIR	HB	Crystal		FSK
3456.380	W5HN/B	EM13kf	250 mW	Alford Slot	280 ft	OFF THE AIR	DB6NT	Crystal X 27	128.014 MHz	FSK
3400.380	W5HN/B	EM13kf	250 mW	Alford Slot	280 ft	BEING UPGRADED (2)	DB6NT	ADF4351	125.94 MHz	on/off
5760.364	W5HN/B	EM13kf	158 mW	Alford Slot	280 ft	ON THE AIR	DB6NT	Crystal X 48	120.0079 MHz	FSK
10368.368	W5HN/B	EM13kf	2.5 W	Alford Slot	280 ft	ON THE AIR	DB6NT	Crystal X 96	108.00395 MHz	FSK
24192.300	AA5C/B	EM13sf	500 mW	16-slot WR42	75 ft	ON THE AIR	HB	Crystal	112.0015 MHz	on/off
24192.380	W5HN/B	EM13kf		10 slot Alford	280 ft	Under Construction (3)	HB	ZL PLL		on/off
47088.300	W5HN/B	?				Under Construction				

Notes

Actual 10 digit grid squares

EM13sj = EM13sj91mr

EM13se = EM13se55vi

DM93bm = DM93bm46su

EM13kf = EM13kf45pb

EM13sf = EM13sf89tb

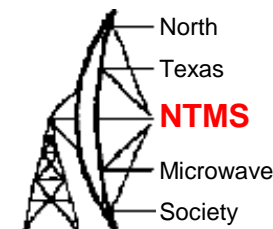
(1) Waiting for a tower climb to put antenna back up at 60ft

(2) Working on cleaning up spurs

(3) ETA 2023

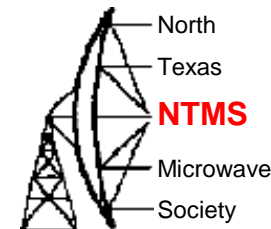
The beacons highlighted in yellow are at TWU and will be the subject of a work party on May 23rd.

TWU work party May 23rd



Freq (MHz)	Call	Power	Antenna	Status	Frequency	Freq Reference	Work to be done			
432.380	W5HN/B	.8 W	Halo	ON THE AIR	ADF4351	10 MHz OCXO	Modulation on beacon (1)			
903.050	W5HN/B	9 W	Alford Slot	ON THE AIR	N5AC PLL	10 MHz OCXO	Modulation on beacon (1)			
1296.375	W5HN/B	3 W	Alford Slot	ON THE AIR	N5AC PLL	10 MHz OCXO	Modulation on beacon (1)			
2304.366	W5HN/B	4 W	Alford Slot	OFF THE AIR	Crystal		Ceased operation (2)			
3400.380	W5HN/B	250 mW	Alford Slot	BEING UPGRADED	ADF4351	125.94 MHz	Need to Install			
5760.364	W5HN/B	158 mW	Alford Slot	ON THE AIR	Crystal X 48	120.0079 MHz	Works fine			
10368.368	W5HN/B	2.5 W	Alford Slot	ON THE AIR	Crystal X 96	108.00395 MHz	Works fine			
24192.380	W5HN/B		10 slot Alford	Under Construction	DB6NT PLL					
47088.360	W5HN/B	10 mW	W1GHZ sector horn	Being field tested	DB6NT PLL and WA1MBA Multiplier		Best DX 29 km			
(1) Install new Spectracom GPS receiver with 10 MHz reference and DEMI 10-4 splitter to drive 432/903/1296 and 3400 MHz beacons										
(2) Bring home to troubleshoot and repair										
Future work										
Phase lock 2.3, 5 and 10 GHz beacons										
Remote control of Spectracom Receiver										
Install 24 and 47 GHz beacons										
Consider remounting the 2, 3, 5, and 10 GHz beacons to make them more accessible without crawling out on beams.										

432, 902, 1296, 2304, 3456, 5760, 10368 MHz Beacon Antennas



Height 280 ft above ground
Facing East toward McKinney

2,3,5, 10 GHz Beacon Box