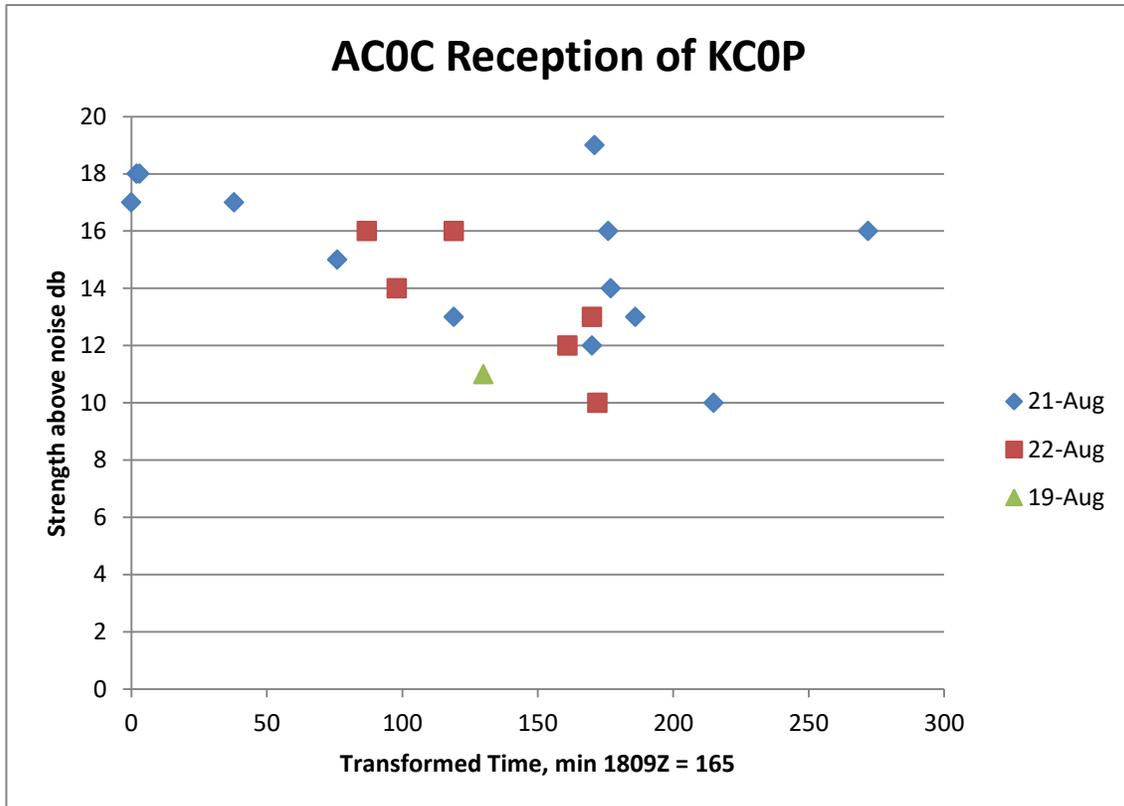


DSN=ACOC3dayTry3

ACOC reception of KCOP eclipse day 21 Aug 2017

Mel 28Aug2017

Time, Z	Time	21-Aug Strndb	22-Aug Strndb	19-Aug Strndb
	1524	0	17	
	1526	2	18	
	1527	3	18	
	1602	38	17	
	1640	76	15	
	1651	87		16
	1702	98		14
	1723	119	13	16
	1734	130		11
	1805	161		12
	1814	170	12	13
	1815	171	19	
	1816	172		10
	1820	176	16	
	1821	177	14	
	1830	186	13	
	1859	215	10	
	1956	272	16	



1809Z was when the eclipse was overhead at ACOC just S. of Kansas City, KS
The transformed time is 165 minutes.

Description of station used for 2017 Eclipse SEQP operation:

Transmitter: Icom 706 MkII G Pwr setting 7, Bird Wattmeter reads 65 W key down.

Antenna Tuner: Home brew, T config, Roller inductor shunt to ground.

Balun: Four to One, Amidon toroid kit.

Feed Line: 100 feet 450 Ohm window line.

Antenna: Van Gordon Engineering 135 foot All Band Dipole, Installed as inverted Vee, 28 ft high in middle, 18 ft at ends, wire East / West, Omnidirectional.

Ground conductivity: 8 milli Siemens as per FCC Map.

Estimate of Effective Radiated Power: 60 Watts.

QST Jul 2013 page 48 shows a Tee config Tuner and 4 to 1 Balun measure 4 % loss at 7 MHz and 4 : 1 SWR

ARRL Antenna Book 1991 page 24-18 Window Line Loss at 7 MHz less than 0.05 db per 100 ft.

Best Estimate: 2.5 W lost in tuner and balun and 2.5 W lost in feed line due to high SWR. 65 W at xmtr, 5 W lost leaves 60 W at Dipole Antenna. 60 Watt ERP.