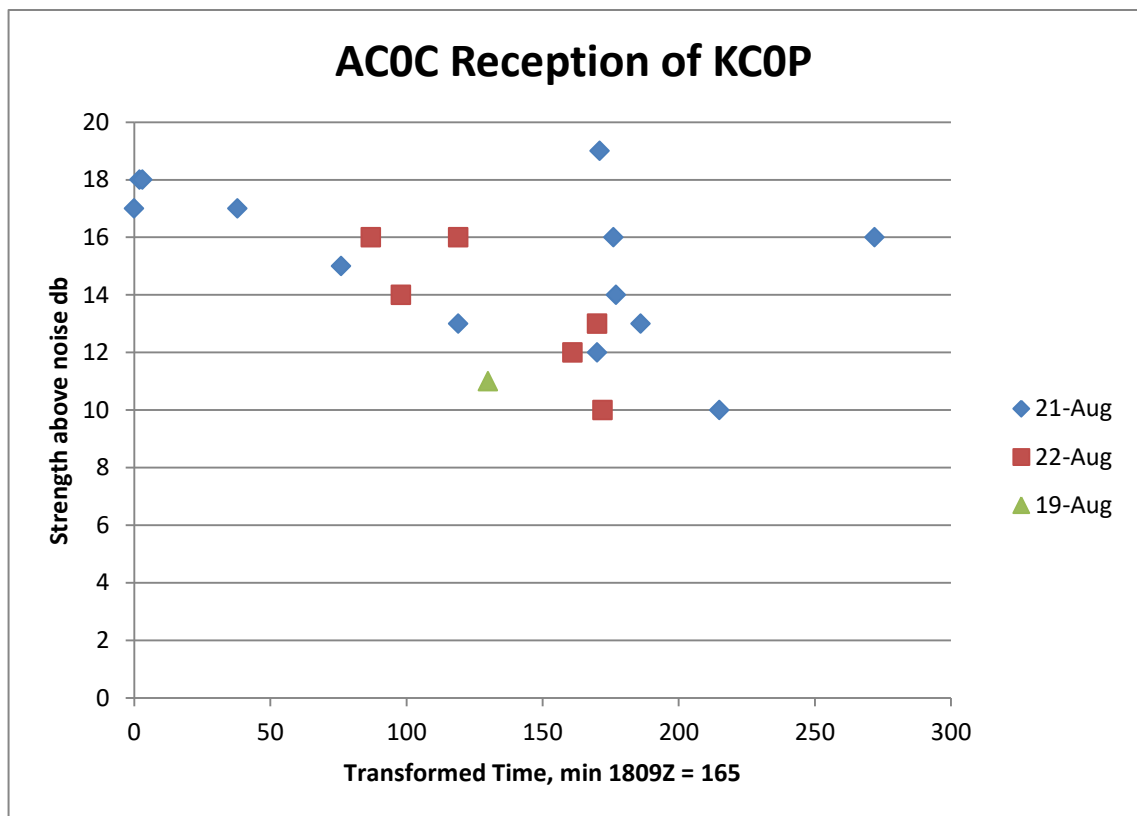


DSN=AC0C3dayTry3

ACOC reception of KCOP eclipse day 21 Aug 2017

Mel 28Aug2017

Time, Z	Transposed 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.