

2018 Field Day Equipment Plan - Radios, Filters, and Network

<u>Mode</u>	<u>Triplexor</u>	<u>Filters</u>	<u>Band</u>	<u>Radio/Equipment</u>	<u>Laptop</u>	<u>Ext. Monitor Connetion</u>	<u>Notes</u>
SSB	NARS	NARS	40m	K3S + Pan Adapter (K1DLM)	K1DLM (T450S) + Monitor (AB1OC)	HDMI	For interference mitigation
			20m	IC-7300 (AB1OC)	AB1OC (Tabby) + Monitor (AB1OC)	HDMI	
			15m	IC-7300 (AB1OC)	AB1OC (Shack) + Monitor (AB1OC)	HDMI	
			75m/10m	IC-7300 (AB1ZO)	K1DLM (DV4T) + Monitor (AB1OC)	VGA	
CW	NARS	NARS	40m	IC-7300 (K1WVO)	K1WVO + Monitor (K1WVO)	HDMI??	
			20m	IC-7300 (K1DLM)	K1DLM (T550) + Monitor (K1WVO)	HDMI	
			75m/15m/10m	IC-7300 (K1HMS)	K1DLM (Envy) + Monitor (K1HMS)	HDMI (DVI adapter)	Same Tent as 6m
Digital	K1DLM	K1DLM	40m	Flex-6700 (W1MBG)	K1DLM (T560) + Monitor (K1DLM)	HDMI	Serial # 2516-5308-6700-6556
			20m	Flex-6700 (K1DLM)	K1DLM (NUC) + 2 Monitors (K1DLM)	HDMI	Serial # 4716-5303-6700-5722
			75m/15m/10m	Flex-6500 (K1DLM)	K1DLM (T550) + Monitor (K1DLM)	HDMI	Serial # 0915-4055-6500-0753
			GOTA (75/15/10)	GOTA Flex-6500 (NE1B)	K1DLM (T400) + Monitor (K1HMS)	VGA	Serial # 3616-5314-6500-2914 Shared antenna switch
				GOTA Maestro (K1DLM)			
6m	N/A	NARS	6m	IC-756Pro III (K1WVO)	AB1OC (Torbie) + Monitor (AB1OC)	HDMI	Same Tent as 75m/15m/10m CW
Satellite	N/A	N/A	2m/70cm/23cm	IC-9100 (AB1OC)	Alvin (AB1OC) + Monitor (AB1OC) NUC #2 (K1DLM) + Monitor (AB1OC)	HDMI on Both	
Data Network	N/A	N/A	N/A	Net Rack (K1DLM)	Ethernet Switches in Tents (AB1OC)		WiFi to Link CW Tents, Wired Connections to all PCs and SDR. Also has 4G Internet Access
Talk-in/PI Scoreboard	N/A	N/A	2m/70m	GoKit	Tiger (AB1QB) + Monitor (K1DLM large)	HDMI	Now an Alpha Station, setup N1MM for logging and scoreboard
Messaging Bonus/Fox Hunt	N/A	N/A	2m	HTs - 2 (AC1DC/AB1OC) RDT Antennas - 2 (AC1DC), Foxes - 3 (AC1DC/AB1OC)	N/A		
Skimmer System	N/A	N/A	80m - 10m	SDR Dongle (W1CBD)	Laptop (W1CBD)		AB1OC OCF Dipole and Coax

2018 Field Day Equipment Plan - Antennas and Coax

System	Tower	Antenna	Coax	ID
SSB	40'	SSB Tribander	150' LMR-400	K1LGQ
		75m Inv-V	150' LMR-240	NARC-20
		40m V-Beam	50' RG8X	In V-Beam Box
			150' LMR-400	NARC-21
CW/6m	40'	CW Tribander	150' LMR-400	none (Need to mark)
		80m Inv-V	150' LMR-240	NARC-18
		40m Inv-V	150' LMR-400	NARC-06
		6m, 5 Elem. Yagi	150' LMR-600, LMR-400uF Rotator Loop, Filter Jumper, an Radio Jumpers	LMR-600 Donation from K1DLM + Jumper Donation from AB1OC, NARC-23a,b,c,d,e
		Rotator for 6m	150' Control Cable	Rotator Box
Talk-In Go Kit	n/a	K1DLM Tripod	K1DLM Coax	n/a
Digital/GOTA	60'	WRTC Yagi	150' LMR-400	NARC-19
		80m Inv-V	135' LMR-400	NARC-11
		40m Inv-V	150' LMR-400	NARC-22
CW Skimmer	n/a	80-10 OCF Dipole (AB1OC)	2X100' + 50' + 25' RG-8X	Hang in nearby tree - need barrel conn., rope, and stakes (AB1OC)

Bring two WRTC Yagis in BoB (one as as backup to Tribanders)

2018 Field Day Equipment Plan - Tents and Gear

Mode	Bands	Tent	Resp. Tables, Chairs, Flooring, Cords, etc	Small (34" x 34") Tables	Large 64" Tables	Chairs	Lamps	25' 3-prong cord	Fans	3'x3' Woo Floor Squares	24"x24" Rubber Floor Squares	Notes
SSB	40m, 15m	WRTC (AB1OC)	AB1OC	3 - AB1OC		3 - AB1OC	2 - AB1OC	2 - AB1OC	2 - AB1OC		16 - AB1OC	
	20m, 75m/10m	WRTC (K1LGQ Purchase)	NARS via K1LGQ Kit	3 - K1LGQ Kit		3 - K1LGQ Kit	2 - K1LGQ Kit	2 - AB1OC	2 - K1LGQ Kit		16 - AB1OC	
Digital/GOTA/SAT	20m, 40m Digi	WRTC (K1DLM)	K1DLM	1 - K1DLM	2 - AB1OC	3 - K1DLM	2 - K1DLM	2 - K1DLM	2 - K1DLM		16 - AB1OC	K1DLM has complete kit for 1 tent
	75m/15m/10m Digi, GOTA	7 Person (NARS, BoB)	K1DLM	1 - AB1OC	2 - NARS	4 - K1WVO	2 - AB1OC	2 - K1DLM	2 - AB1OC		16 - AB1OC	
	SAT + Network	LARGE (K1DLM)	K1DLM	1 - K1DLM	2 - NARS	3 - K1WVO	1 - AB1OC	1 - AB1OC	1 - K1DLM Vertical		16 - NARS	
CW/6m	20m, 40m	WRTC (K1WVO)	K1WVO	3 - K1WVO	1 - AB1NS 8'	3 - K1WVO	2 - K1WVO	2 - K1WVO	2 - K1WVO	6 - K1WVO		
	6m, 75m/15m/10m, Skimmer	7 Person (AB1NS)	K1WVO		2 - W1SMN	2 - K1WVO	1 - AB1OC	2 - K1WVO	2 - AB1OC	6 - NARS		
Digital SDRs	All Digital and GOTA Radios	Equipment Dome (AB1OC)	K1DLM				1 - K1DLM LED Tripod	1 - K1DLM	1 - AB1OC	1 - NARS		Open air dome w/sides, AB1OC Large Fan ; NEED FLOOR SQUARE (AB1OC)
Public Info	2m/70cm Talk-in/GoKit	Public Info (AB1OC)	AB1OC		1 - NARS	3 - K1WVO	1 - K1DLM LED Tripod	1 - AB1OC	1 - AB1OC		16 - NARS	Open air dome
Food	N/A	Food Canopy (AB1OC)	K1DLM		3 - 2x6; 1x8' K1DLM		1 - K1DLM Party	1 - K1DLM				Open air canopy
		Dining Canopy (K1DLM)	K1DLM		1 - 8' - K1DLM	10 - K1DLM plastic	1 - KDLM Party	1 - K1DLM	1 - K1DLM Box			Large open air canopy
				12	14	34	16	17	16	13	96	

Tally of gear by person/source

Source	Tents w/Tarps for Under	Flooring	Small WRTC Tables	Large Tables	Chairs	Lamps/Lights	Fans	Power Strip/ HD 25' Cord
NARS (BoB)	1 - WRTC 1 - 7 Person	13 - WRTC Wood 32 - Tiles (2' x 2')	4 - WRTC	5 - 5 1/2 ft	3 - WRTC	2 - WRTC	2 - WRTC	
Fred (AB1OC)	1 - WRTC 1 - Small Dome (SDR) 1 - Green Dome (PI) 1 - Orange Canopy (Food)	64 - Tiles (2' x 2')	3 - WRTC	2 - 5 1/2 ft	3 - WRTC 3 - Folding	2 - WRTC 5 - Extra	2 - WRTC 5 - Tent 1 - Shop Floor	6
Dave (K1DLM)	1 - WRTC 1 - Large 1 - Dining Canopy		2 - WRTC	2 - 6 ft 2 - 8 ft	3 - WRTC 10 - Plastic	2 - WRTC 2 - LED Tripod 2 - LED Party	2 - WRTC 1 - Vertical 1 - Box	7
Mike (K1WVO)	1 - WRTC	6 - WRTC Wood	3 - WRTC		15 - Folding	2 - K1WVO	2 - WRTC	4
Tom (AB1NS)	1 - 7 Person			1 - 8 ft				
John (W1SMN)				2 - 8 ft				
Totals	11	19 Wood, 96 Tiles	12	14	37	17	16	17

2018 Field Day Equipment Plan - Power Budget

<u>Integrated Tx</u>	<u>Average Power (W)</u>	<u>Worst Case Power (W)</u>	<u>Notes</u>
100W Radio	150	300	Avg = 50% Duty Cycle, IC-7300: 13.8V @21A for 100W Tx
Laptop Computer	75	75	
Other Equipment	50	50	Rotators, Keyers, Monitors, Antenna Switch, etc.
Lighting and Fans	150	150	Two lights plus a fan
	425	575	500

<u>Remote Control</u>	<u>Average Power (W)</u>	<u>Worst Case Power (W)</u>	<u>Notes</u>
Maestro	40	40	50% Duty Cycle
Laptop Computer	75	75	
Other Equipment	50	50	Rotator, Keyers, Monitors, Antenna Switch, etc.
Lighting and Fans	150	150	Two lights plus a fan
	315	315	315

<u>Remote Tx</u>	<u>Average Power (W)</u>	<u>Worst Case Power (W)</u>	<u>Notes</u>
100W Radio	175	350	Avg = 50% Duty Cycle, Flex-6700: 13.8V @23A for 100W Tx
Other Equipment	50	50	Keyers, Monitors, Antenna Switch, etc.
Lighting and Fans	50	50	Light plus a fan for all (pro rated)
	275	450	450

<u>Mode/Site</u>	<u>Integrated Tx</u>	<u>Remote Control</u>	<u>Remote Tx</u>	<u>Total Power</u>	<u>Gen Type</u>	<u>Notes</u>
CW/6m	4	0	0	2000	Two Single EU2000s (K1LGQ+K1WVO)+K1DLM Parallel Kit	MARGINAL FOR SINGLE UNIT - DUAL
SSB	4	0	0	2000	Dual AB10C	MARGINAL FOR SINGLE UNIT - DUAL
Digital/GOTA/SAT	1	4	0	1760	Dual K1DLM	Operator
	1	0	0	500		
SDR Tent	0	0	4	1800	Single K1DLM	SDR Site
Trailer	0	0	0			
Food/Public Info	n/a	n/a	n/a	6500	EU6500 (K1DLM)	

2018 Field Day Equipment Plan - Generators and Grounds

<u>Mode</u>	<u>Type</u>	<u>Ground Rods</u>	<u>Notes</u>
SSB	Dual EU2000 (AB1OC)	2	One rod per tent
CW/6m	Two Single EU2000s (K1LGQ+K1WVO)+K1DLM Parallel Kit	2	One rod per tent.
Digital/GOTA/Sat	Dual EU2000 (K1DLM)	3	One rod per tent plus one at SDR tent. <i>SDR Tx and Digital/Sat Operator Tent proximity requires two single units.</i>
SDR Tent	Single EU2000 (K1DLM)	1	
Camp Trailer	Honda EU6500 (K1DLM)	1	
Food/Public Info			