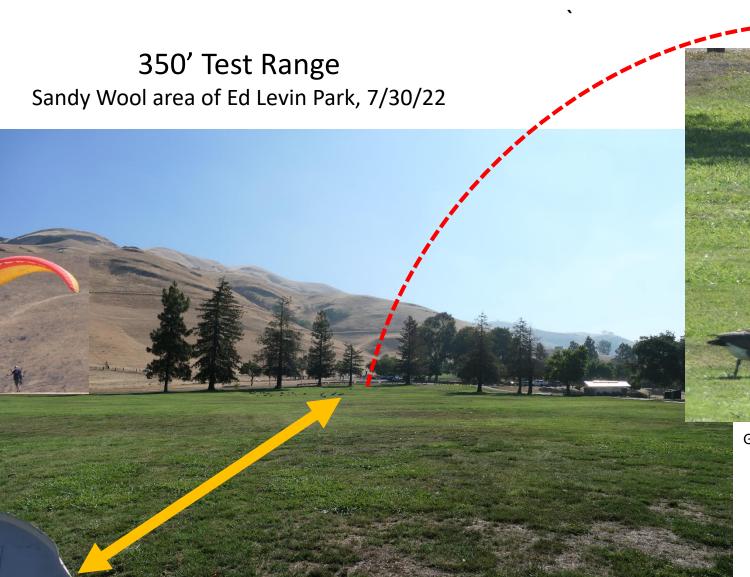
Hang Glider QSB K6ML, Test Tech
AF6RT assisted, thanks!



Geese Range Techs

Remote Test Head 10 and 24 GHz Transceivers 450' RG-58 back to test line (144 IF)

Test Line: 12 Members' Rigs and Control Station

## **MDS** Results

Operator	Call	Power	Dish Size (in)	Calc Ant Gain	calc dBm at rig ant	IF noise floor dBFS 2500	IF S+N/N dB 2500	IF SNR dB 2500	MDS 500 at rx ant	Rx NF
Gary	K6MG	57.4	70.9	42.7	-145.9	-72.5	31.9	31.9	-185	5.0
Jim	N9JIM	41.8	18.1	30.9	-145.0	-86.8	24.6	24.6	-177	1.3
Brian	WA6QDP	42.0	18.1	30.9	-145.0	-76.2	24.2	24.2	-176	1.7
Oliver	KB6BA	40.0	18	30.8	-145.0	-95.6	23.3	23.2	-175	2.6
Oliver	KB6BA	40.0	12" panel	25.0	-145.0	-96.6	22.3	22.3	-174	-2.2
Brian	W6BY	30.0	12" panel	25.0	-145.0	-83.5	15.0	14.8	-167	5.2
Mike	K6ML	40.8	23.6	33.2	-145.0	-88.5	4.4	2.4	-154	25.8
Paul	AA6PZ	36.0	36	36.9	-145.0	-87.1	3.0	0.0	-152	31.9

## **ERP Results**

	Call	PA Out dBm	Dish Size (in)	Calc Ant Gain	Calc ERP	SA dBFS	dB Atten	Meas ERP	Meas - Calc
ı	K6MG	57.4	70.9	42.7	100	-29.9	10	93	-7
	K6ML	40.8	23.6	33.2	74	-30.8	0	82	8
W	A6QDP	42.0	18.1	30.9	73	-36.2	0	76	3
1	N9JIM	41.8	18.1	30.9	73	-39.7	0	73	0
K	КВ6ВА	40.0	18	30.8	71	-40.6	0	72	1
A	AA6PZ	36.0	36	36.9	73	-43.5	0	69	-4
K	КВ6ВА	40.0	12" panel	25.0	65	-47.1	0	65	0
١	W6BY	30.0	12" panel	25.0	55	-59.7	0	53	-2

## 10 GHz Results

**K6MG** 6' Dish EME setup had best MDS and ERP, but numbers are low compared to expected, probably because range was short for 6' Dish (near field) & trees

#### MDS

N9JIM, WA6QDP & KB6BA dish look OK W6BY MDS slightly lower **K6ML and AA6PZ seem to be deaf.** *KB6BA panel measurement was probably in error* 

ERP K6MG probably due to near field & trees; K6ML ERP probably in error; Others not too far from expected, PZ slight underformance

Both sets of measurements normalized to best rig tested; reasonable sample size, the estimated numbers are close, and the relative numbers are definitely meaningful (with the exceptions noted above)

### **MDS** Results

Operator	Call	Power	Dish Size (in)	Calc Ant Gain	calc dBm at rig ant	IF noise floor dBFS 2500	IF S+N/N dB 2500	IF SNR dB 2500	MDS 500 at rx ant	Rx NF
Mike	K6ML	35.4	23.6	40.5	-146.6	-84.5	31.4	31.4	-185	2.6
Jim	N9JIM	34.8	18.1	38.2	-146.6	-81.7	27.6	27.6	-181	4.1
Brian	WA6QDP	28.8	18.1	38.2	-146.6	-94.0	15.0	14.9	-168	16.8
Paul	AA6PZ	30.0	23.6	40.5	-146.6	-95.5	1.8	-2.9	-151	36.9

## **ERP Results** (Forgot to add test head preamp, so minimum detectable ERP was higher than last year)

Са	III	PA Out dBm	Dish Size (in)	Calc Ant Gain	Calc ERP	SA dBFS	dB Atten	Meas ERP	Meas - Calc
N9J	IM	34.8	18.1	38.2	73	-77.7	0	72	-1
WA60	QDP	28.8	18.1	38.2	67	-91.9	0	58	-9
AA6	PZ	30.0	23.6	40.5	71	-92.9	0	57	-13

Mike's Waveguide switch was stuck, so no ERP measurement

# 24 GHz Results

#### **MDS**

K6ML and N9JIM in the zone;

WA6QDP low, AA6PZ even lower

#### **ERP**

#### N9JIM OK

WA6QDP and AA6PZ down in the test system's noise floor...
QDP might be OK, can't say; **PZ is underperforming**(maybe his PA isn't what he thought)

Both sets of measurements normalized to best rig tested; due to small sample size, the estimated numbers could be wrong, But the relative numbers are meaningful