

Socorro and Valencia Counties Simplex Exercise

Saturday, March 22, 2014 146.55 kHz

Latitude and Longitude positions are based on the World Geodetic System established in 1984,

WGS84 is the reference coordinate system used by the Global Positioning System

Station	Operator		Equipment	Latitude	Longitude
Base s1	Bill Brundage	NM5WB	RPTR 1W HT, Simplex 10W 20' vertical antenna	N 34° 05.20'	W 106° 53.55'
Base s2	Dave Johnson	KB5YIW	IC-2829 (50w) on 5/8 magmount in at 4 feet	N 34° 4.400'	W 106° 54.445'
Base s3	Al Braun	AC5BX	IICOM 706 50W maybe J pole over Radio Shack store	N 34° 03.84'	W 106° 53.52'
Base v1	VC ARA	AC5OUR			
Base v1	Chris Gillespi	W5CSG	IC-2720 5w w/2m vertical antenna on roof at 35' (@ VCARA cluubhouse)		
Base v2	Paul Ridley	N5PR	7 element Yagi at 72" (@ home GTH)	DM64op	
Mobile v1	Charlie Lyon	NM5CL	FT-8800R 50W w/hi-gain dual band mag mount antenna		
Mobile s1	Doug May	KF5AVG	ICOM 91A 5w dual band handheld, on car battery, with 5/8 mag mount		
Mobile s2	Eric Stargardt	KF5RCN	5w dual band handheld with mag mount		
Mobile s3	Luis Aguilar	WB5JMD	25w mobile with 10-element Yagi (worked Thursday only)	N 34° 09.6'	W 106° 54.4'
Base s4	Mike Finn	KB5REN	50W, Cushcraft 3-element collinear vertical antenna, 6 db gain		

Local Time	Transmitting Unit	Receiving Unit	Location of Mobile Unit			Comments
			Description	Latitude	Longitude	
0940	M2	M1 B1 B2 B3	Pueblito N of cattle guard N of intersection	N 34° 07.5'	W 106° 52.7'	Good signal
1020	M1	M2 B1 B2 B3 NM5CL Vegueta	NM 408 & Schmittle Road, Lemitar	N 34° 08.2'	W 106° 54.2'	Some slight static
1040	M1	M2 B1	RC Church, Lemitar	N 34° 09.6'	W 106° 54.5'	Some slight static
1105	M1	M2 B1 B3	N end of NM 408, by Vern's house, Polvadera	N 34° 13.1'	W 106° 54.6'	Voice understandable but noisy
1120	M1	M2 B1 B3	Top of N bound exit from 1-25, SAN ACACIA	N 34° 15.2'	W 106° 54.4' ?	Voice understandable but noisy
	M1	NM5CL	N bound I-25 at mile 168.5, S of Sevellita			No contact
	M1	N5PR, W5CSG	N bound I-25 at mile 168.5, on the north face of the hill south of Sevellita			Good reception
1205	M1	M2	Lemitar Truck Stop	N34° 09.4'	W 106° 55.2'	No contact with base stations
						Submitted by: Doug May KF5AVG

Local Time	Transmitting Unit	Receiving Unit	Location of Mobile Unit			Comments
			Description	Latitude	Longitude	
0930	M2 KF5RCN	B1 NM5WB	Pueblito			OK
0940	M1 KF5AVG	B1	Pueblito			OK
0940	B2 KB5YIW	B1	Dave Johnson's home			OK
1000	KB5REN	B1	Mike Finn's home, S of Socorro			OK
1010	NM5CL	B1	Vegueta			In noise no copy
1020	NM5PR	B1	S of Belen			In noise no copy
1050	M1	B1	Lemitar, Catholic Church			OK noisy
1100	NM5CL/m	B1	NM 47 & US 60			
1100	M1	B1	Polvadera (Leavitt's house)			OK noisy
1120	M1	B1	I-25 @ San Acacia exit			OK (little noise)
1130	M1	B1	I-25, N of rest area, top S face of hill			In noise, no copy
1140	M1	B1	I-25, N of rest area, near top N face of hill			No signal
1210	M1	B1	Lemitar Truck stop			OK noisy
						Submitted by Bill Brundage NM5WB
0941	KF5RCN	KB5YIW	Loc 1 – Pueblito	N 34° 07.5'	W 106° 52.7'	Need common coordinate notation
1029	KF5AVG	KF5RCN	Loc 2 – Schmittle Rd.	N 34° 08.2'	W 106° 54.2'	Solid contact
1040	KV5AVG	NM5WB	Loc 3 – Lemitar	N 34° 09.6'	W 106° 54.4'	Readable
1040	KV5AVG	KB5YIW	Loc 3 – Lemitar	N 34° 09.6'	W 106° 54.4'	Not readable
1040	KV5AVG	AC5BX	Loc 3 – Lemitar	N 34° 09.6'	W 106° 54.4'	Not readable
1101	KV5AVG	KF5RCN	Loc 4 – Hwy 408			Copy
1101	KV5AVG	AC5BX	Loc 4 – Hwy 408			Copy
1101	KV5AVG	NM5WB	Loc 4 – Hwy 408			Readable
						Submitted by Dave Johnson KB5YIW
						Eric Stargardt KF5RCN - no report

Local Time	Transmitting Unit	Receiving Unit	Location of Mobile Unit			Comments
			Description	Latitude	Longitude	
	M1 M2 B1 B2	B3				Reception heard
	WB5OAF	B3	Glenn's home in Carnuel, E of Albuquerque			Nothing
	NM5CL	B3	Mobile in N Socorro County			Down in noise
	W5CSG	B3	Valencia County ARA clubhouse, Belen			Reception heard
	KB5REN	B3	Mike Finn's home, S end of Socorro			Reception heard
						Submitted by Al AC5BX, Radio Shack
3-20 AM	WB5JMD M3	VCARA, Belen	S of Dicaperl Corp mine, S of US 60 where S bound US 60 turns west, power line crosses.	N 34° 09.6'	W 106° 54.4'	10-element Yagi, 25 watts, good reception, very little noise
3-20 7 PM	WB5JMD M3	NM5CL, LL		N 34° 09.6'	W 106° 54.4'	
						Submitted by: Luis WB5JMD
3-22	NM5CL	KB5REN	Intersection of NM 304 & US 60			Good reception
3-22	NM5CL	KB5REN	Intersection of NM 47 & US 60			Good reception
3-20 7 PM	N5PR	KB5REN	Paul's home			Good
3-20 AM	W5CSG	KB5REN	Valencia County ARA Clubhouse, Belen			Good
						Submitted verbally by: Mike KB5REN
0935	V1	Socorro	NM 304/Haddox Road	N 34° 35.5'	W 106° 44.3'	146.55, no contact w/ Socorro
0947	V1	KB5REN	NM 304/Wheeler Road	N 34° 31.8'	W 106° 45.8'	146.55, good copy b/w
0957	V1	W5CSG	NM 304 Veguita community	N 34° 29.6'	W 106° 46.0'	146.55, good copy b/w
1018	V1	N5PR	NM 304 @ Boys Ranch			146.55, 59 copy b/w
1023	V1	KB5REN	NM 304/NM 60 intersection	N 34° 25.2'	W 106° 46.8'	146.55, 59 copy b/w
1037	V1	W5CSG	NM 60, 1.65mile W. of NM Rte 5	N 34° 25.4'	W 106° 42.5'	146.55, 58 copy b/w
1057	V1	Socorro	NM 60/NM47 intersection			146.55, no contact, nothing heard
1107	V1	Socorro	NM 60/NM47 intersection	N 34° 26.0'	W 106° 32.0'	146.55, no contact, nothing heard
1134	V1	Socorro	Mobile on NM 47 N. from NM60	n/a	n/a	146.55, no contact, nothing heard
1145	V1	Net	NM 47 at Rio Communities	n/a	n/a	Secure from exercise
						Submitted by: Charlie Lyon NM5CL

EXERCISE SUMMARY

During an emergency cell phones, repeaters and HF frequencies may be busy, making simplex frequencies a good alternative for local communications. The valley north of Socorro contains three communities, Lemitar, Polvadera and San Acacia with a total population of 1500. It is an area approximately 10 miles north and south and 3 miles east and west. The populated area is bordered on the east by the Rio Grande. On the west only a few homes are west of I-25. The valley is accessible from the north by I-25 and from the south by I-25 and NM 408. Possible dangers to this area include Flash floods, fires, chemical spills from trucks or trains and wind storms. Shelters, rescue and recovery teams could be coordinated using several simplex frequencies from a mobile unit in Pueblito just east of the Rio Grande, which also has good simplex contact with base stations in Socorro. This exercise tested simplex contacts between various points in this valley with the Pueblito mobile unit and various stations in Socorro. On Thursday March 20, simplex contact was also tested successfully between Socorro and Belen and Los Lunas.

LESSONS LEARNED

- It would be helpful to use a standard for describing the audibility of the contacts.
- It would be helpful to have two individuals in the mobile units for better record keeping.
- It was helpful to have dual band transceivers for quick transfer from the 146.68 repeater to the 146.55 simplex frequency. Two transceivers would be even better
- It would be helpful to have three pre-determined simplex frequencies for use in the Socorro area.
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Doug May KF5AVG
1st complete draft
3-29-2014