

## Past efforts

**No Signal**

Well, the antenna was blocked by the building, and there were also site noise, leading to repeater de-sense.

## Past efforts



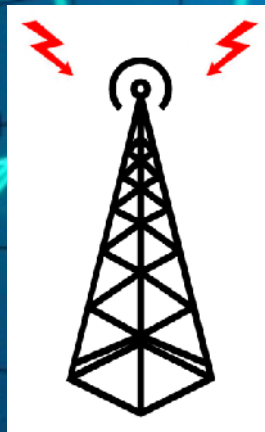
Mr Jeff even went back to his office during Christmas to help tune the repeater!

## Past efforts

Characterising the Antenna-Duplexer-Repeater combination						
Filename	DD267_73.xls					
Static Sensitivity TX Level (dBm)						
Sinad =12dB	-122					
Sinad =10dB	-123					
Before Duplexer Retuning						
	Step 1 TX Level (dBm)	Step 2 TX Level (dBm)	Site Noise (dB)	Step 3 TX Level (-8m)	Step 4 TX Level	Repeater Desense on Dummy Load
Sinad =12dB	-90	-76	14	-50	-88	2
Sinad =10dB	91	//	14	51	90	1
After Duplexer Retuning						
	Step 1 TX Level (dBm)	Step 2 TX Level (dBm)	Site Noise (dB)	Step 3 TX Level (-8m)	Step 4 TX Level (dBm)	Repeater Desense on Dummy Load (dB)
Sinad =12dB	-91	-77	14	-50	-92	0
Sinad =10dB	-92	-78	14	-53	-93	0

Here are the results after tuning.

## Past efforts



Because of the poor location, it was hard to get the repeater. Not much could be done.

## Past efforts



Around a month ago, Jaya, 9V1AI finally installed the VHF repeater at his place.

## The results



Mr Jeff sent out an email asking members to help test the repeater. Let's see how it fared at its new location.

## The results – My own tests



From Serangoon, 11.22 KM away:  
 My sig: 59: Repeater CW beacon sig: 599  
 Power: 1 watt, antenna: RH-770

## The results – My own tests



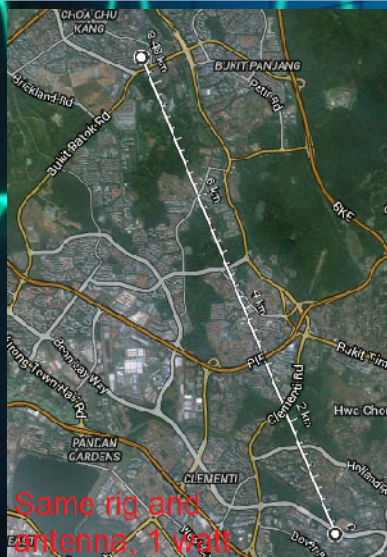
From Marina Bay, 9.87 KM away:  
 My Sig: 56, CW beacon sig: 596,  
 Same rig and antenna, 5 watts

## The results – My own tests



From Whitley road, 4.93 KM away:  
My Sig: 59, CW beacon sig: 599,  
Same rig and antenna, 5 watts

## The results – My own tests



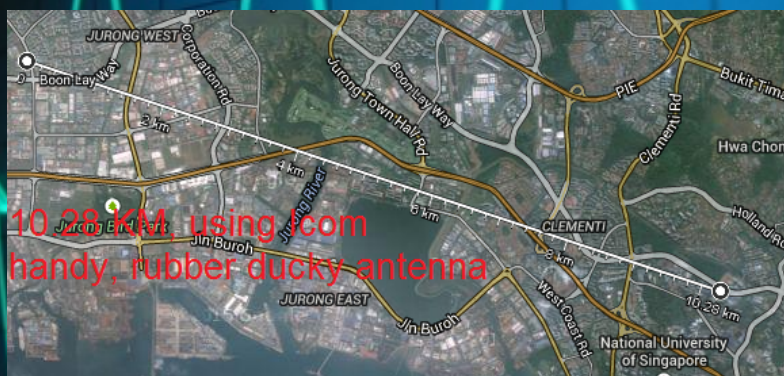
From Teck Whye, 8.48  
KM away:  
No QSO, CW beacon  
sig: 599,  
Same rig and antenna,  
1 watt

## The results – My own tests



From Singapore Polytechnic, 610 meter away:  
Why bother? =P

## The results – Other operator's tests



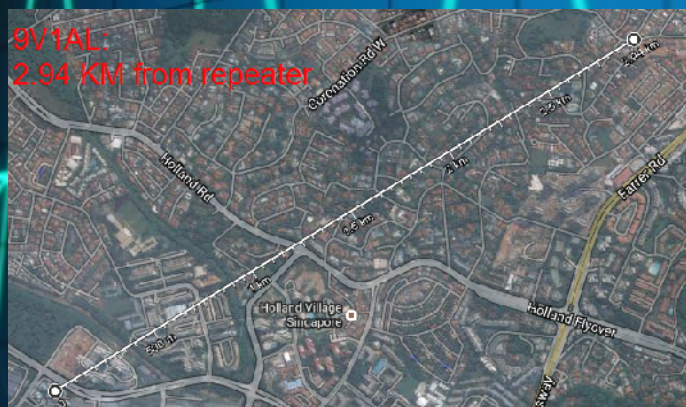
9V1SV – Icom handy, using rubber ducky,  
10.28 Km away. Sig: 5 8

## The results – Other operator's tests



9V1XX:  
Causeway to  
repeater: 14.53 KM  
Sig: 3 4 (Dropping  
off)  
1 watt power

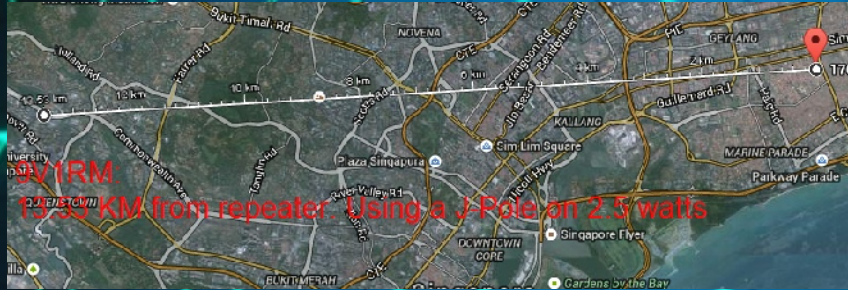
## The results – Other operator's tests



9V1AL: 2.94 KM from repeater, from Coronation  
Road, Sig 5 8



## The results – Other operator's tests



9V1RM, From Joo Chiat, 13.53 KM away,  
Sig: 5 4 (dropping off), repeater beacon 5 9 9

## The results – Other operator's tests

Report for signal quality 1 (Could not even hear the morse beacon)

Callsign:	Location:	Rig:
9V1LK	Bukit Timah	Desk or vehicle set
9V1SV	Pasir Ris MRT	Handie with other antenna e.g. whip

## The results – Other operator's tests

Report for signal quality 2 (Could only hear the Morse beacon, unable to "kerchunk" the repeater)

Callsign:	Location:	Rig:
9V1LY	Woodlands MRT	Handie with rubber ducky
9V1LY	Bugis and Chinatown	Handie with rubber ducky
9V1SV	Tampines MRT	Handle with other antenna e.g. whip
9V1RM	Joo Chiat	Handie with rubber ducky

## The results – Other operator's tests

Report for signal quality 3 (Able to "kerchunk" the repeater, but no one to QSO with)

Callsign:	Location:	Rig:
9V1AN	Teck Whye	Handle with other antenna e.g. whip
9V1LY	Tanglin Mall	Handie with rubber ducky
9V1LY	Ngee Ann Polytechnic	Handie with rubber ducky
9V1LY	Marina Square	Handie with rubber ducky
9V1LY	Great World City	Handie with rubber ducky

## The results – Other operator's tests

### Report for signal quality 4 (Able to QSO, but poor copy)

Callsign:	Location:	Rig:
9V1SV	Kembangan MRT	Handie with other antenna e.g. whip

## The results – Other operator's tests

### Report for signal quality 5 (100% copy but not full quieting)

Callsign:	Location:	Rig:
9M2LXM/9V1LX	Nusajaya, Malaysia	Handie with rubber ducky
9V1SV	NTU and Boon Lay	Handie with other antenna e.g. whip
9V1SV	Sim Lim Tower	Handie with other antenna e.g. whip
9V1AN	Serangoon	Handie with other antenna e.g. whip
9V1AN	Islandwide (On bus moving along SLE expressway)	Handie with other antenna e.g. whip
9V1AN	NUS	Handie with other antenna e.g. whip
9V1AL	Coronation Road	Handie with other antenna e.g. whip

## The results – Other operator's tests

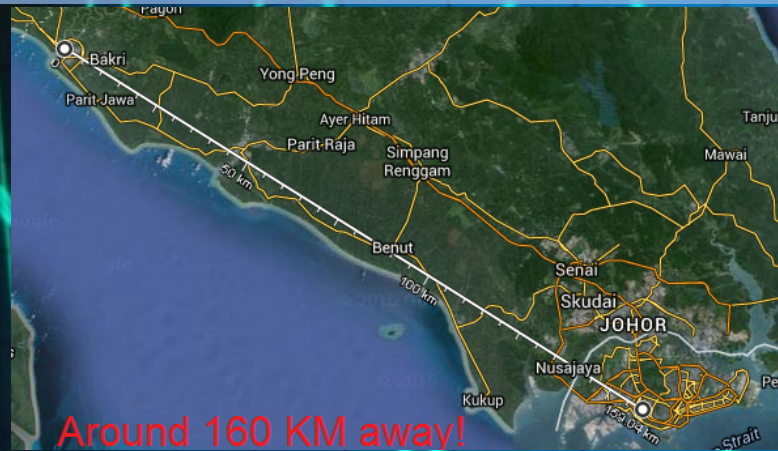
Report for signal quality 6 (100% copy, full quieting)		
Callsign:	Location:	Rig:
9V1LY	Singapore Polytechnic	Handie with rubber ducky
9V1UU	Toa Payoh	Handie with rubber ducky
9V1SV	Basin Link	Handie with other antenna e.g. whip
9V1SV	Jurong Island	Handie with other antenna e.g. whip
9V1AL	Coronation Road	Handie with other antenna e.g. whip
9V1FC	Pandan Loop	Handie with rubber ducky
9V1RM	Joo Chiat	Handie with other antenna e.g. whip
9V1WW	Ghim Moh	Desk or vehicle set

## Special Report



Roger Lee, who is a private pilot, was able to hear the repeater beacon from Muar, Malaysia!

## Special Report – Distance Plot



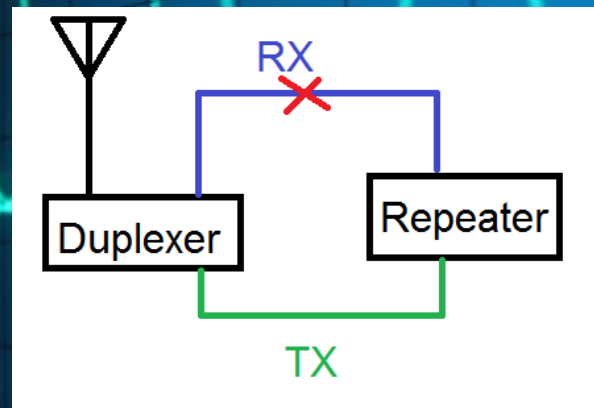
Here is a distance plot.

## An occurrence



Nearly 3 weeks ago, something bad happened to the repeater.

### An occurrence



The repeater was no longer receiving signals properly!

### An occurrence



Siva went to Jaya's place to fix the issue.

