

10m Repeaters

(PART 01/27)

I just have finished an update of my last 10m-repeaterlist WW 2.99. You can find many news and corrections of my last list. Thanks for all the informations for my 10m-repeaterlist worldwide, i have received via e-mail or packet-radio, to all hams around the world!

The new list is sorted to 10m-output frequencies. Quickly you can find now the 10m-repeaters working on the same frequency. Please send me your corrections, news and updates (tx-pwr, tx-qth, tx and rx-locator, use of antennas to tx and the rx-side, CW-ID?, link on what band? and additional input-frequencies from other repeaters on 6m, 2m, 220mhz and 23cm-bands, using ctcss-tone on the repeater, voice-messages and so on). You can send me your news via packet-radio to: DL6XB@DB0HNB.#HH.DEU.EU or to my hamradio-friend Juergen Moeller, DH3JM, with the e-mail-adress: dg1xj@t-online.de for news for my 10m-repeaterlist worldwide... These full 10m-repeaterlist includes 27 parts.

This list you can find also into the world wide web under the URL's:
<http://www.qsl.net/dl2gg> or <http://www.darc.de/referate/hf> and
<http://www.hb9hd.ch>

(END OF PART 01/27)

(PART 02/27)

COORDINATION OF THE 29 MHZ FM REPEATERS IN THE IARU REGION 1

INTRODUCTION

Since the number of active 29 MHz repeaters in Region 1 is increasing and applications for new ones are continuously dropping in, it seems necessary to coordinate them on Region 1 level.

The main policy for the coordinator is, that he shall do his best to make it possible for all radio amateurs interested in 29 MHz FM repeaters to get an allocation where they do not cause interference to other repeaters or modes. It is important for the coordinator to keep and update a list of repeaters. The Region 1 member societies should therefore provide information about changes of the 29 MHz FM Repeater situation in their countries for the coordinator.

FREQUENCY COORDINATION

The written determination of the regional and the national frequency coordination body shall prevail and be considered good amateur operating practice. The regional frequency coordination body of IARU Region 1 is the 29 MHz MF Repeater Coordinator, nominated by and member of the HF Committee. Name, call-sign and address are published in each number of Region 1 News. The national frequency coordination is carried out in deliberation with the Region 1 Coordinator by a body nominated by the national member society.

THE IARU-REGION 1 29MHZ-FM-REPEATER-COORDINATOR IS:

SM3AVQ, Lars Olsson, Furumovaegen 21 K, S-80641 Gaevle, SWEDEN, Telephone:
Home:00946 (0)26 518424, QRL:00946 (0)26 179275, Summerhouse: 00946 (0)26
99578, GSM(Mobile):00946 (0)70 7204203, Fax:00946 (0)26 179365

GUIDELINES FOR COORDINATION

The distance between two repeaters using the same frequency pair should be at least 250 km.

If the distance of a repeater-location to the boarder of a neighbouring country is less than 250 km, the HF Committee or the neighbouring national society must be consulted for coordination.

Access to the repeaters shall always be possible with a 1750 Hz tone. Other access methods (DTMF tones) may be allowed in parallel with the standard 1750 Hz.

If a radio link is used between the repeaters RX and TX it is advisable to use a subtone system (CTCSS).

The holder of a 29 MHz Repeater licence is free to switch off the repeater when it is misused or if the repeater in normal conditions causes interference with another one.

(END OF PART 02/27)

(PART 03/27)

GENERAL RULES FOR REPEATER OPERATION

Repeaters are primarily intended to facilitate mobile operation. Mobile traffic shall always have priority.

If you can hear each other on the in-frequency - QSY to a simplex frequency. Never occupy a repeater if simplex traffic is possible, because that prevents others from using it.

Use the minimum amount of power necessary to maintain contact.

Monitor the repeater in order to become familiar with any peculiarities in its operation.

There is no need for long calls. Just simply indicate that you are on the repeater.

Identify legally. You must identify at least every 10 minutes during a contact and at the end of it.

Pause between transmissions to allow other hams to break in and gain access to repeater too.

Be thoughtful and keep the transmissions as short as possible. Be aware that your transmissions are monitored by many listeners. Don't give the amateur radio hobby a bad reputation!

THE 29 MHZ FM SEGMENT IN THE IARU REGION 1

FREQUENCY (MHz)	APPLICATION
29.510	Band edge, don't use
29.520 - 29.550	FM Simplex
29.560 - 29.590	Repeater inputs, (10 kHz spacing)
29.600	Calling Frequency
29.610 - 29.650	FM Simplex
29.660 - 29.690	Repeater outputs, (10 kHz spacing)
29.700	

FREQUENCIES FOR FM REPEATERS IN THE IARU REGION 1

DESIGNATION	REPEATER INPUT	REPEATER OUTPUT
RH1	29.560 MHz	29.660 MHz
RH2	29.570 MHz	29.670 MHz
RH3	29.580 MHz	29.680 MHz
RH4	29.590 MHz	29.690 MHz

(END OF PART 03/27)

(PART 04/27)

EXPLANATION FOR THE 10M-REPEATERLIST WORLDWIDE (de ARRL, WIA and DL6XB)

NOTES

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What follows is a discussion of some of the specialized features used in repeaters listings (NOTES) in the directory.

LOCATION - The city/town where the repeater is located a pound sign (#) following indicates the repeater is uncoordinated by the coordination council.

OUTPUT - The output frequency in megahertz.

INPUT - The input frequency in megahertz.

CALL - The call sign of the repeater.

ERP - Effective radiated power (watts).

HASL - Height above sea level (metres).

Locator - QTH-Locator from this 10m-repeater.

NOTES - How the repeater may be accessed and other specialized features are indicated by the following abbreviations:

o - Open (usually carrier-operated)

bi/bl - Bi-lingual system

c - Closed, limited access system

- Demonstration, experimental system

LiTZ - (Ltz) Long-Tone Zero. Used to alert users to an emergency in some areas of the country.

t - Tone-Access (CTCSS tone) required to access the system. Standard EIA frequency codes are listed later in this chapter.

tt - Touch-Tone (R) access to specialized features.
 RB - Remote Base
 SNP - Shared Non-Protected Pair. In some areas there are repeater frequencies listed as SNP. These frequencies are intended to provide spectrum for experimental repeaters, search and rescue operations, portable public service systems and to act as a holding place for repeaters awaiting coordination. Users of SNP frequencies do so under the following guidelines:
 1) The frequencies are shared by all users.
 2) Operators receive no protection from other co-channel users.
 3) All systems use CTCSS or other approved method of limited access.
 4) The frequency coordinator shall coordinate the CTCSS tones.
 b - Burst (tonecall)
 bcn - Beacon
 RH - Shortwave-channel in the IARU-Region 1 for 10-m-repeaters
 INFO - Please send more informations of this repeater to:
 DL6XB @ DB0HHB.#HH.DEU.EU
 li - licensed, but not currently on air

(END OF PART 04/27)

(PART 05/27)

EXPLANATION FOR THE 10M-REPEATERLIST WORLDWIDE (de ARRL, WIA and DL6XB)

NOTES
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op - Operating (carrying on)
 pl - Planning/development stage / planned; not yet licensed
 QTH ? - Location not known...?
 T - testing
 ? - licensed but operational status unknown

SPECIALIZED FEATURES (NOTES continued):
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a - autopatch
 (ca) - closed autopatch; may be used with authorization
 DS - Dual Squelch
 e - emergency power
 e-sun - solar power
 e-wind - wind power
 l - linked or crossband system
 p - portable system
 pkt - digital/packet capability
 R/r - RACES affiliated
 A - ARES affiliated
 x - wide area coverage system
 y - RTTY/ASCII system
 z - direct access to law enforcement
 Wx - weather net/weather usage
 Exp - experimental system
 RX - Receiver
 TX - Transmitter
 Voice: - Voiceannouncement:(Text).....
 * - This is currently understudy by ARRL
 SPONSOR - The Sponsor of the repeater. Plus (+) sign indicates the listed call plus additional calls, sponsor the repeater.
 T/O - timeout (in minutes)

CTCSS (PL) TONE FREQUENCIES
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The purpose of CTCSS (PL)<TM> is to reduce co-channel interference during band openings. CTCSS (PL)<TM> equipped repeaters would respond only to signals having the CTCSS tone required for that repeater. These repeaters would not respond to weak distant signals on their inputs and correspondingly not transmit and repeat to add to the congestion. The standard Electronic Industries Association (EIA) frequency codes, in hertz, with their Motorola alphanumeric designators, are as follows: (see the Call Area list!)
 During 1980 the ARRL Board of Directors adopted the 10-meter CTCSS (PL)<TM> tone-controlled squelch frequencies listed below for voluntary incorporation

into 10-meter repeater systems to provide a uniform national system.

(END OF PART 05/27)

(PART 06/27)

CTCSS (PL) TONE FREQUENCIES

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Call Area	Tone 1	Tone 2
W1	131.8 Hz-3B	91.5 Hz-ZZ
W2	136.5 Hz-4Z	94.8 Hz-ZA
W3	141.3 Hz-4A	97.4 Hz-ZB
W4	146.2 Hz-4B	100.0 Hz-1Z
W5	151.4 Hz-5Z	103.5 Hz-1A
W6	156.7 Hz-5A	107.2 Hz-1B
W7	162.2 Hz-5B	110.9 Hz-2Z
W8	167.9 Hz-6Z	114.8 Hz-2A
W9	173.8 Hz-6A	118.8 Hz-2B
W0	179.9 Hz-6B	123.0 Hz-3Z
VE	127.3 Hz-3A	88.5 Hz-YB

Bandplan for frequency modulation (FM) in the IARU-Region 1

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29.520 - 29.550 MHz FM-Simplexworking (10-kHz-distance 29520,29530 kHz and so on)

29.560 - 29.590 MHz Repeater inputs (RH1 - RH4)

29.600 MHz FM Simplex calling-frequency (to connection pse clear)

29.610 - 29.650 MHz FM-Simplexworking (10-kHz-distance 29610,29620 kHz and so on)

29.660 - 29.690 MHz Repeater outputs (RH1 - RH4)

10-m-repeater-channels in the IARU-Region 1

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(Ch) Input Output

RH- 29.530 29.630 MHz (not IARU-Region 1 bandplanconform)

RH1 29.560 29.660 MHz

RH2 29.570 29.670 MHz

RH3 29.580 29.680 MHz

RH4 29.590 29.690 MHz

Bandplan for 10-m-repeaters in the IARU-Region 2

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29.510 - 29.590 MHz Repeater inputs

29.600 MHz National FM Simplex Frequency

29.610 - 29.690 MHz Repeater outputs

Bandplan for 10-m-repeaters in the IARU-Region 3

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29.510 - 29.700 MHz FM Repeaters and Simplex

29.520 - 29.580 MHz Repeater Inputs

Note: Four repeater channels are allocated, with 20 kHz channel spacing and 100kHz offset.

29.600 MHz International FM Simplex

29.620 - 29.680 MHz Repeater Outputs

(END OF PART 06/27)

(PART 07/27)

Repeater frequency pairs (input/output) in the IARU-Region 2 and 3

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29.520/29.620 MHz 29.560/29.660 MHz

29.540/29.640 MHz 29.580/29.680 MHz

REPEATER LINGO (by The ARRL REPEATER DIRECTORY 1995/1996 Edition):

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This chapter covers a basic course in "repeater-speak" and explains many of the

terms heard on your local repeater. Read on and enjoy!

Definations of the words and phrases commonly used on repeaters:

Autopatch - A device that interfaces the repeater system with the telephone system to extend ham communication over the telephone communication network.

Breaker - A ham who interjects his call sign during a QSO in an attempt to get a chance to communicate over a repeater.

Channel - The pair of frequencies (input and output) a repeater operates on.

Closed Repeater - A repeater whose use is limited to certain individuals. These are completely legal under FCC Rules.

Control Operator - An individual ham designated to "control" the repeater, as required by FCC regulations.

COR - Carrier-Operated-Relay, a device that, upon sensing a received signal, turns on the repeater's transmitter to repeat the received signal.

Courtesy Tone - A short tone sounded after each repeater transmission to permit other stations to gain access to the repeater before the tone sounds.

Coverage - The geographical area in which the repeater may be used for communication.

CTCSS - Continuous Tone Coded Squelch System, a subaudible tone system which operates the squelch (COR) of a repeater when the corresponding subaudible tone is present on a transmitted signal. The squelch on a repeater that uses CTCSS will not activate if the improper CTCSS tone, or if no tone, is transmitted.

Crossband - Communication to another frequency band by means of a link interfaced with the repeater.

Desense - Degradation of receiver sensitivity caused by strong unwanted signals reaching the receiver front end.

Duplexer - A device that permits the use of one antenna for both transmitting and receiving with minimal degradation to either the incoming or outgoing signals.

Frequency Synthesis - A scheme of frequency generation in modern transceivers using digital techniques.

Full Quieting - Signal strength in excess of the amount required to mask ambient noise.

Hand-Held - A portable FM transceiver that is small enough to use and carry in one hand.

Input - The frequency the repeater receiver is tuned to: The frequency that a repeater user transmits on.

Intermod - Interference caused by spurious signals generated by intermodulation distortion in a receiver front end or transmitter power amplifier stage.

Key-Up - Turning on a repeater by transmitting on its input frequency.

LiTZ - Long Tone Zero (LiTZ) Alerting system. Send DTMF zero (0) for at least three seconds to request emergency/urgent assistance.

Machine - The complete repeater system.

(END OF PART 07/27)

(PART 08/27)

REPEATER LINGO (by The ARRL REPEATER DIRECTORY 1995/1996 Edition):

=====
This chapter covers a basic course in "repeater-speak" and explains many of the terms heard on your local repeater. Read on and enjoy!

Definations of the words and phrases commonly used on repeaters:

Mag-Mount - A mobile antenna with a magnetic base that permits quick installation and removal from the motor vehicle.

Offset - The spacing between a repeater's input and output

Omnidirectional - An antenna system that radiates equally in all directions.

Output - The frequency the repeater transmits on; the frequency that a repeater user receives on.

Picket-Fencing - Rapid flutter on a mobile signal as it travels past an obstruction.

Polarization - The plane an antenna system operates in; most repeaters are vertically polarized.

Reverse Autopatch - A device that interfaces the repeater with the telephone system and permits users of the phone system to call the repeater and converse with on-the-air repeater users.

RPT/R - Abbreviation used after repeater call signs to indicate that the call

sign is being used for repeater operation.

Simplex - Communication on one frequency, not via a repeater.

Split Sites - The use of two locations for repeater operation (the receiver is at one site and the transmitter at another), and the two are linked by telephone or radio.

Squelch Tail - The noise burst that follows the short, unmodulated carrier following each repeater transmission.

Time-Out-Timer - A device that limits the length of a single repeater transmission (usually 3 minutes).

Tone Pad - A device that generates the standard telephone system tones used for controlling various repeater functions.

(END OF PART 08/27)

(PART 09/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town
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29.500 29.500 U.S.A. California South/SO CAL Yes
open, simplex

29.540 ----- DX1HB PHILIPPINES Mandaluyong ?

Voicemail: Access initiated from the on this frequency. This is the
Philippines repeater DX1HB CQ-loop (Beacon-function) up to every 49-50 seconds

29.550 29.550 S55UCE SLOVENIA Sv.Jungert Yes

145.4625 S55UCE SLOVENIA Sv.Jungert Yes

433.050 434.650 S55UCE SLOVENIA Sv.Jungert Yes

Crossband and multisystem, free users access from 2m, DTMF commands, DVR, digi-
talker, voice clock, etc. commands. 10m-gateway soon and link to: S50VMS (dvms)
and S55TVA 2.4/1.2ghz fm atv rpt. Locator: JN76OH, 574m/HASL, sponsor: S51KQ.
TNX for this Info to Mijo, S51KQ@S50ATV.SVN.EU

29.560 146.340 K2TKE U.S.A. New York-TSARC/Manhattan/ Yes

emergency power, races affiliated, Setauket
linked or crossband system, ctcss:136.5hz and 100.0hz, sponsor: WrdMlvHS

29.590 449.600 KA2JOB U.S.A. New York-TSARC/Suffolk/ Yes

open, linked or crossband system to 10m Long Island/Centereach
and 70cm, ctcss:146.2hz, PWR:60W, sporadic connection with the 10m-repeater
DF0HHH in Hamburg on 29.690mhz output. TNX for this Info to KA2JOB via e-mail:
hclasen@suffolk.lib.ny.us

29.6__ 29.5__ V5__ NAMIBIA Windhoek ?

PSE Info to DL6XB!

29.600 29.600 VE2RYM CANADA Quebec-RAQI/Montreal/ Yes

open, ctcss:103.5hz, sponsor: VE2VK Mt Yamaska

29.600 446.210 VE7IDV CANADA SOUTHEAST/Surrey, B.C. Yes

446.210 29.600

Crossbandrepeater, ctcss-tone on 446.210mhz:67.0hz, sponsor: VE7IDV

My 10 Meter Crossbanding system consists of a Kenwood TM-742 Radio. Bands in-
stalled are: 440 MHz, 2 Meters, 10 Meters. I can CrossBand in any configuration
with this Rig. The way I now run it is 446.210 Tone 67.0 (input) and 29.600 MHz
(output) with no tone. Antennas used for the output (29.600 Mhz) is a Mosley
TA-33 at 50'. It is a Three Element Tri-Band Yagi, about 9dB gain on 10 meters.
I point this antenna South East from here in Surrey, B.C.

Also for 10 meters, I occasionally use an Antron "99" Vertical tuned for 29.600
mhz. at 35' for omnidirectional pattern. (I'm still experimenting with both
Vertical VS. Horizontal. I've found Horizontal polarization usually works bet-
ter for DX on 10 Meters. On the UHF side, I use a Comet GP-98 Vertical with
13.5dB gain on 440mhz. It is located 75' above ground level. I run 50 watts out-
put on 10 meters and 10 watts output on the 440mhz side with great results!
With this system, I can be up to 8 miles away from home using my handheld using
2 watts and Duck antenna to work through the CrossBand. I mounted a small fan
behind the TM-742 to keep things running cool during full duty cycle and have
had no problems at all. 73 - Fred Tieken, VE7IDV @ VE7SRV Surrey, B.C. CANADA.
TNX for this Info to: VE7IDV@VE7SRV.æVANC.BC.CAN.NOAM

29.600 29.600 U.S.A. California South/SO CAL Yes

open, simplex

29.600 29.600 W4CM U.S.A. Virginia/Newport News Yes
open, remote base, sponsor:newport, simplex

(END OF PART 09/27)

(PART 10/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output (MHz)	Input (MHz)	Call- sign	Country	Federal State/ Town	QRV?
29.610	29.510	VO1KEN	NEWFOUNDLAND	St.Johns/St.Johns	Yes

open

29.610 439.375 CT0HAS PORTUGAL Lisboa/Monsanto Yes
439.375 29.610

Crossbandrepeater, TX-PWR on 29.610mhz:40W with vertical dipol, TX-PWR on 439.375mhz:45W with 2 X 5/8 lambda vertical. Equipment:All Alinco UHF and HF equipment. Connection board between HF<>UHF homemade by CT1E0U. Responsible: CT1DGZ. Licensed to ARAS ASSOCIACAO DE RADIOAMADORES DA AMADORA-SINTRA. TNX for this Info to CT1DBH@CS1AAS.CTLX.PRT.EU or e-mail: pissaro@mail.telepac.pt

29.620 29.520 VK5RHF AUSTRALIA ADELAIDE/Glenside Yes
open, ctcss:88.5hz, PWR:5W ERP, Link via wire, 70m/HASL, RX-QTH:Glenside,
sponsor:SSC

29.620 29.520 VK2RUW AUSTRALIA WOLLONGONG/Knights Hill Yes
open, linked or crossband system, PWR:50W ERP, 771m/HASL, T/O:5.0, RX-QTH:
Mt Murray, expected back on air late 1995, sponsor:NIL

29.620 29.620 VK2RUW AUSTRALIA Wollongong Yes

Simplex-Gateway, linked or crossband system, sponsor:IARS
The Illawarra Amateur Radio Society on the south coast of N.S.W., has estab-
lished a 10 metre Simplex "Gateway". This Gateway is Simplex on 29.620mhz FM
and is connected to two UHF 70cm repeaters, one in Wollongong (servicing from
Sydney in the north to Batemans Bay in the south) and one in Goulburn (servi-
cing the Southern Highlands and parts of Canberra).

The term "Gateway" was chosen as it is not a repeater in itself, it is a Gate-
way into the local UHF repeater systems. To access the system, you transmit and
receive on 29.620mhz (no offset). Because it is not a repeater there is no
"tail" to acknowledge if the system hears you. Instead, to inform users if they
are successfully accessing the Gateway, a Voice Identtification will transmit 2
seconds after the mute closes, announcing in a female voice the following -
"This is VK2RUW, the Wollongong New South Wales, 10 metre Simplex Gateway".
The ident will be transmitted with every mute opening of less than 4 seconds.
When a longer transmission is received or when a QSO is taking place, the Ident
is inhibited.

Also a "Talking Clock" is connected to the Gateway and to the 2 repeaters. The
female voice will announce the local time every hour, plus, if a DTMF "9" is
sent, the current time will also be transmitted back.

The Gateway runs 100 watts FM into a dipole 100 feet up a tower, 2,600 feet
A.S.L. and has good RX sensitivity with a noise mute.

In the future, the VK2 Division WIA Sunday morning Broadcasts will be relayed
via the Gateway. Also, work is currently progressing in linking the Gateway in-
to another 70cm repeater covering VK1 and southern N.S.W.

The Gateway is reliant on 2 factors, the Sun Spot Cycle and Amateur Operators
knowing about the system. Unfortunately, we can't do much about the Sun Spots,
but this message can help with the second. We would appreciate any readers of
this information passing it on to fellow HF Operators and local Clubs. Our Club
invites all Amateurs far and wide, to try and access the Gateway and to make
contacts with the many friendly operators in this region.

Wishing you all the best in this great hobby of ours...

Thank you. Rob - VK2MT (Repeater Officer I.A.R.S. inc.)

TNX for this Info to Cliff Walker, Wellington, ZL2ALY@ZL2WA.#63.NZL.OC

(END OF PART 10/27)

(PART 11/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output (MHz)	Input (MHz)	Call- sign	Country	Federal State/ Town	QRV?
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29.620 29.520 ON0HOB BELGIUM Heist-op-den-berg Yes
 430.250 431.850 Crossband linked system via ctcss-tone:131.8hz to 29.620mhz.
 Obligated linked to 29.620mhz output and 29.520mhz input with no RX-ctcss. TX-
 QTH:JO21IB, TX-PWR:15W ERP, TX-antenna:Cushcraft R5, TX-ctcss:131.8hz. The
 diversity-RX is in Locator:JO21LA. The antenna for 70cm is a comet colinear
 with 3db and 15W ERP. Transmitter and receiver separated using SHF-Links on all
 bands. Callsign ON0HOB using synthesised voice, clock announcements every hour,
 Rogerbeep:3-tone on all bands plus random radio checks almost every half hour.
 Second remote programmable and reconfigurable based on Z-80 processor. Also non
 linked brother repeaters on same sites on 145.6375mhz with ctcss:173.8hz and
 1297.250mhz with ctcss:131.8hz in -6mhz. TNX for this Info to Pedro,
 ON7WP@ON7RC.#BR.BEL.EU

 29.620 29.520 VA3FMR CANADA Ontario-SLVRC/National Capitol Yes
 emergency power, ctcss:136.5hz Region/Dunrobin

 29.620 29.520 VE3TFM CANADA Ontario-WNYSORC/Metro Toronto/ Yes
 open, closed autopatch, emergency power, Uxbridge
 direct access to law enforcement, linked or crossband system to the 2m-band,
 ctcss:103.5hz, sponsor:TFMCS

 29.620 29.520 KP4IA PUERTO RICO Aguas Buenas Yes
 open, linked or crossband system to 145.425mhz ?, Voice:From KP4IA repeater,
 Voice:This is the Kilo Papa 4 India Alfa repeater, Voice:2 meter to 6 meter and
 to 10 meter link, this is the Kilo Papa 4 India Alfa repeater, the time is (and
 then the QTR), CW-ID:DE KP4IA/R, Rogerbeep:3-tones in CW: S . . . (low/middle/
 high-tone), sporadic coupling with KP3AV on 29.660mhz output.

 29.620 29.520 N8DNZ U.S.A. Alabama/Talladega Yes
 open, touch-tone, emergency power, closed autopatch, ctcss:103.5hz,
 sponsor:N8DNZ

 29.620 29.520 WA5P U.S.A. Arkansas/Rudy Yes
 open

 29.620 29.520 N6JSL U.S.A. California North-NARCC Yes
 open, ctcss:156.7hz, sponsor:N6JSL Sacramento Valley/Auburn

 29.620 29.520 KD6AOG U.S.A. California North-NARCC Yes
 open, sponsor:KD6AOG South Bay/San Jose

 29.620 29.520 NI8H U.S.A. California South/LA,OR,RIV, Yes
 open, ctcss:107.2hz, sponsor:BARC SBER, Los Angeles

 29.620 29.520 W0TX U.S.A. Colorado/Denver Yes
 open, CW-ID:W0TX/R, sponsor:Denver RC Denver

 29.620 29.520 KM4ZT U.S.A. Florida/Southeast-Miami/Ft Yes
 open, linked or crossband system, Lauderdale Area/Miami
 Voice:Listen to the southeast USA on KM4ZT link this repeater system (example:
 9:32 am wednesday november 4 good morning), Voice:KM4ZT repeater system,
 sponsor:KM4ZT

 29.620 29.520 W4ILQ U.S.A. Florida/Southeast-Miami/Ft Yes
 open, emergency power, sponsor:W4ILQ Lauderdale Area/Miami

(END OF PART 11/27)

(PART 12/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/Town	QRV?
29.620	29.520	WA3DUX	U.S.A.	Florida/Southwest-Ft Myers Area/Port Charlotte	Yes
open, autopatch, direct access to law enforcement, linked or crossband system, races affiliated, sponsor:PRRA					
29.620	29.520	KF4XH	U.S.A.	Georgia/Macon (#)	Yes
open, the city/town where the repeater is located a pound sign (#) following indicates the repeater is uncoordinated by the coordination council					
29.620	29.520	KQ4XL	U.S.A.	Georgia/Monroe	Yes

open, sponsor:KQ4XL

29.620 29.520 K9AMJ U.S.A. Illinois/Rockford/Rockford Yes
open, emergency power, linked or crossband system, races affiliated, sponsor:
K9AMJ

29.620 29.520 K9KE U.S.A. Illinois/St.Louis/Godfrey Yes
open, linked or crossband system, sponsor:K9KE

29.620 29.520 K0AAR U.S.A. Iowa/Sioux City/Sioux City Yes
open, ctcss:179.9hz, linked or crossband system, CW-ID:K0AAR/R, sponsor:SARA

29.620 29.520 W5GAD U.S.A. Louisiana/New Orleans/Metairie Yes
open, linked or crossband system: 145.37MHz, ctcss:151.4hz, sponsor:JFRSN ARC

29.620 29.520 AA3AV U.S.A. Maryland/South/Mechanicsville Yes
emergency power, linked or crossband system, races affiliated, ctcss:141.3hz,
sponsor:SPARC

29.620 448.300 N3AGB U.S.A. Maryland/South/Mechanicsville Yes
emergency power, linked or crossband system, races affiliated, sponsor:SPARC

443.300 29.520 N3AGB U.S.A. Maryland/South/St Leonard Yes
emergency power, linked or crossband system, tone-access (ctcss tone) required
to access the system, ctcss:141.3hz, races affiliated, sponsor:SPARC

29.620 29.520 KK3L U.S.A. Maryland/Western/Cumberland/ Yes
linked or crossband system, tone-access Lonaconing
(ctcss tone) required to access the system, sponsor:KK3L

29.620 144.990 KK3L U.S.A. Maryland/Western/Cumberland/ Yes
link or crossband system, sponsor:KK3L Lonaconing

147.525 29.520 KK3L U.S.A. Maryland/Western/Cumberland/ Yes
linked or crossband system, sponsor:KK3L Lonaconing

29.620 29.520 W1OJ U.S.A. Massachusetts/Central/Bolton Yes
open, emergency power, link or crossband system on the 70cm-band, wide area
coverage system, races affiliated, ctcss:151.4hz on 29.620mhz for the time when
the repeater-squelch is open, PWR:100W, sponsor:WrldNet, Voice:This is the
W 1 O J repeater near Boston, Rogerbeep:1-tone, CW-ID:W1OJ or W1OJ WORLD NET

29.620 29.520 KC8HIG U.S.A. Michigan-MARC/Southeast/ Yes
open, wide area coverage system, link or Petersburg
crossband system, sponsor:HAM-A-LOT

29.620 29.520 KA0BFP U.S.A. Minnesota/MPLS-St.Paul/Cologne Yes
open, sponsor:SCAN

(END OF PART 12/27)

(PART 13/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town

29.620 29.520 WA5WRE U.S.A. Mississippi/Poplarville Yes
open, sponsor:WA5WRE

29.620 29.520 KB7KB U.S.A. Montana/South Central/Bozeman Yes
open, linked or crossband system, ctcss:110.9hz, sponsor:BARBS,
Voice:KB7KB repeater

29.620 29.520 WR2AHL U.S.A. New Jersey or New York ??? Yes
open, CW-ID:WR2AHL, Rogerbeep:1-tone

29.620 29.520 KQ2H U.S.A. New York-TSARC/Manhattan/ Yes
ctcss:146.2hz, sponsor:KQ2H, Manhattan
CW-ID:DE KQ2H/R, Voice:You are on KQ2H repeater (example: good morning the time
is 8:26 am), Voice:This is KQ2H repeater, Voice:The..... minutes
of area time this is the KQ2H repeater system, RX in New Jersey?, Rogerbeep:
2-tone(low-high tone)

29.620 29.520 KQ2H U.S.A. New York-TSARC/Ulster/ Yes
ctcss:110.9hz, sponsor:KQ2H Woodstock

29.620 29.520 WB2HYP U.S.A. New York-UNYREPCO/Rochester/ Yes
open, sponsor:GRIDD, CW-ID:WB2HYP Avon

29.620 29.520 N2ISQ U.S.A. New York-WNYSORC/Southern Tier/ Yes
ctcss:127.3hz Maple Springs

29.620 29.520 WB4IUY U.S.A. North Carolina/Wendell Yes
open, emergency power, linked or crossband system, PWR:300W, sponsor:WB4IUY,
Hi! I am WB4IUY. My repeater has a combination voice and CW id'r. It ID's in
Voice if the repeaters has not been in use in the last 45 seconds or more, and
in CW when in use. It also has an auxiliary input on 442.300mhz simplex. It is
linked full time with 53.07mhz output and 52.07mhz input and shares the same
split site links. Height above ground is currently 170 feet, but moving to 400
feet in a couple of weeks. The RX antenna is 1/2-wave-groundplane and TX anten-
na is 5/8-wave-groundplane. UHF simplex is 3 X 5/8-wave-groundplane up 170 feet
and 70cm power output is 30W. 6 meter system is at 170 feet also, but moving to
400 foot site as well. Power out on 6 meters is 100 watts into 3 bay phased
vertical dipol. TNX for this Info to: WB4IUY@WB4IUY.#RTP.NC.USA.NOAM

29.620 29.520 KC4XE U.S.A. North Carolina/Wilkesboro Yes
open, linked or crossband system, CW-ID:KC4XE/R, sponsor:BLUE RIDGE

29.620 29.520 KD8C U.S.A. Ohio/Warren/Mason Yes
open, tone-access (ctcss tone) required to access the system, sponsor:FARA,
CW-ID:KD8C/R FARA

29.620 29.520 AD7O U.S.A. Oregon/Portland Metro/Portland Yes
open, tone-access (ctcss tone) required to access the system, sponsor:WCRI

29.620 29.520 K3CFY U.S.A. Pennsylvania-WPRC/Pittsburgh/ Yes
open, emergency power, sponsor:K3CFY, Irwin
CW-ID:K3CFY PGH PA, Rogerbeep:3-tone in cw "S" . . .

29.620 29.520 W4ZJM U.S.A. Tennessee/Memphis Yes
open, emergency power, linked or crossband system, tone-access (ctcss tone)
required to access the system, ctcss:100.0hz, sponsor:W4ZJM(star/pound)

(END OF PART 13/27)

(PART 14/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/Town	QRV?
29.620	29.520	KN4FK	U.S.A.	Virginia/Staunton	?
Voice:KN4FK repeater system, sponsor:WB4OJL ??? PSE Info to DL6XB!					
29.620	29.520	KA8OTX	U.S.A.	West Virginia/Beckley	Yes
open, CW-ID:KA8OTX/R, sponsor:ARA NORTH					
29.630	29.530	DF0MHR	GERMANY	Muelheim an der Ruhr	Yes
with tonecall:1750.0hz the repeater goes on air, PWR:15W(planning:100W), RX and TX-Antennas:1/4-wave-groundplane, Locator:JO31JL, 180m/HASL, ctcss:123.0hz, sponsor:DF2ER, planning:3 receiver with diversity-receiving in Muelheim, Marl and Dortmund, link to DF0MOT (Wiesbaden) on 70cm-band, QSY to 29.660mhz output, TNX for this Info to DF2ER with e-mail:c11356@email.mot.com					
29.640	29.540	VK3RHF	AUSTRALIA	MELBOURNE/Mt Dandenong	Yes
open, linked or crossband system, touch-tone, 600m/HASL, T/O:2.5, 10m-repeater-site:Olinda, repeaters on 29.640mhz and 438.750mhz are linked, tone access:141.3hz, sponsor:VTF					
29.640	29.540	VK6RHF	AUSTRALIA	PERTH/Roleystone	?
planning, RX-QTH:Herne Hill, sponsor:WRG					
29.640	29.540	VK2RBW	AUSTRALIA	SYDNEY/Berowra	Yes
linked or crossband system, 230m/HASL, sponsor:NWI					
29.640	29.540	VK2RHF	AUSTRALIA	WAGGA/Waggawagga	?
RX-QTH:Sunnybank Range, sponsor:NWD					
29.640	29.540	VE3WOO	CANADA	Ontario-WNYSORC/Metro Toronto/	Yes

open, ctcss:103.5hz Agincourt

29.640 29.540 VE2RST CANADA Quebec-RAQI/Montreal/ Yes
open, sponsor:VE2GSB St Jsph du Lac

29.640 29.540 DX1HB PHILLIPPINES Mandaluyong QRT?
Link on the 6m-band, PSE Info to DL6XB!

29.640 29.540 WB4TJO U.S.A. Alabama/Mobile/Spanish Ft Yes
remote base, PWR:350W, tone-access (ctcss tone) required to access the system,
ctcss:177.3hz on 29.640mhz for the time when the repeater-squelch is open,
sponsor:WB4TJO, Voice:29.64 megahertz and the 350 watts WB4TJO repeater (and
then the QTR), Voice:W B 4 T J O repeater system Echo Mike 60, Rogerbeep:3-tone
(low-middle-high tone), CW-ID:DE WB4TJO/RPT MOBILE AL.

29.640 29.540 KX4I U.S.A. Alabama/Tuscaloosa Yes
closed, limited access system, wide area coverage system, sponsor:KX4I,
Rogerbeep:3-tone (high-middle-low tone), CW-ID:KX4I/R TCL AL

29.640 29.540 KA4AFE U.S.A. Arkansas/Northwest/Rogers Yes
open, sponsor:WA5P

29.640 29.540 W6KRW U.S.A. California South/LA,OR,RIV, Yes
open, ctcss:107.2hz, sponsor:OC RACES SBAR,SBER,SD,VE/Santiago Peak

29.640 29.540 KB4TJ U.S.A. Carolina/Marina/County Monterey Yes
open, Voice:(Intro:Ding Dong>Welcome to VX repeater system Kliffy Bravo 4 Tango
Juliet at the repeater Echo Mike 60, sponsor:KB4TJ

(END OF PART 14/27)

(PART 15/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/Town	QRV?
29.640	29.540	KB1CBI	U.S.A.	Connecticut or Massachusetts ??	Yes
open, Voice:Hello KB1CBI repeater system, PSE Info to DL6XB!, Voice:From KB1CBI repeater system, Voice:Welcome to KB1CBI repeater (Example: Good morning and then the QTR), Voice:Welcome to the K B 1 C B I repeater and remote system.					
29.640	29.540	K1JCL	U.S.A.	Connecticut/Willimantic/ North Coventry	Yes
open, closed autopatch, emergency power, linked or crossband system, CW-ID:DE K1JCL COVENTRY, Rogerbeep:3-tone					
29.640	29.540	N4LEM	U.S.A.	Florida/East Central/Cocoa	Yes
open, sponsor:N4LEM					
29.640	29.540	KI4RF	U.S.A.	Florida/Northeast/ Daytona Beach	Yes
open, linked or crossband system, ctcss:100.0hz, sponsor:KI4RF					
29.640	29.540	NS4R	U.S.A.	Florida/Northeast-Jacksonville Area/Jacksonville	Yes
open, closed autopatch, emergency power, linked or crossband system, ctcss:103.5hz, sponsor:NS4R, Voice:Welcome to the NS4R repeater (example:8:38 am 30 upcovered....), CW-ID:NS4R/R JAX FL					
29.640	29.540	WD4NLG	U.S.A.	Florida/Southeast-Ft Myers Area/Miami	Yes
open, sponsor:WD4NLG					
29.640	29.540	KC4HAZ	U.S.A.	Florida/West Central-Tampa/ St Petersburg Area/Tampa	Yes
open, linked or crossband system, sponsor:KC4HAZ					
29.640	29.540	N4NEQ	U.S.A.	Georgia/Atlanta/Marietta	Yes
open, linked or crossband system, ctcss:118.8hz, sponsor:BIG SHANTY					
29.640	29.540	AA9MZ	U.S.A.	Illinois/St Louis/Troy	Yes
open, linked or crossband system, sponsor:AA9MZ					
29.640	29.540	WA9QDZ	U.S.A.	Indiana/Evansville/	Yes

open, CW-ID:WA9QDZ/R, Rogerbeep:2-tone, County Vanderburgh
sponsor:WA9QDZ

29.640 29.540 W0AQ U.S.A. Kansas/South Central/Wichita Yes
open, closed autopatch, linked or crossband system, sponsor:POWRLINK

29.640 29.540 KK4CZ U.S.A. Kentucky/Louisville Yes
open, sponsor:KA9KOP, CW-ID:KK4CZ LOU KY

29.640 29.540 WD8DPA U.S.A. Michigan-MARC/Southeast/ Yes
open, emergency power, linked or Ann Arbor
crossband system, autopatch, wide area coverage system, CW-ID:DE WD8DPA/RPT/AUX
AA..... PSE Info to DL6XB!, ctcss:114.8hz, sponsor:WD8DPA

29.640 29.540 WB0QQK U.S.A. Nebraska/Ohama/Ohama Yes
open, emergency power, linked or crossband system on 444,875mhz, wide area
coverage system, sponsor:OMA COM

29.640 29.540 N2VV U.S.A. New Jersey-TSARC/Cumberland/ Yes
open, linked or crossband system, Millville
sponsor:N2VV

(END OF PART 15/27)

(PART 16/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

=====
Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town
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29.640 29.540 WA2MLG U.S.A. New York-TSARC/Westchester/ Yes
open, tone-access (ctcss tone) required Tuckahoe
to access the system, CW-ID:DE WA2MLG/RPT, sponsor:WA2MLG

29.640 29.540 K8LK U.S.A. Ohio/Medina/Wadsworth Yes
open, sponsor:K8LK

29.640 29.540 WB5VXK U.S.A. Oklahoma/Tulsa/Tulsa Yes
open, sponsor:WB5VXK

29.640 29.540 W3MIE U.S.A. Pennsylvania-WPRC/Northwest/ Yes
open, sponsor:CrwfrdARS, Meadeville
Voice:W3MIE repeater

29.640 29.540 W4CAT U.S.A. Tennessee/Gallatin (#) Yes
open, the city/town where the repeater is located a pound sign (#) following
indicates the repeater is uncoordinated by the coordination council

29.640 29.540 W4CAT U.S.A. Tennessee/Gallatin/Bna Yes
open, emergency power, linked or crossband system, ctcss:107.2hz, sponsor:CATS

29.640 29.540 WB4NKM U.S.A. Tennessee/Greeneville Yes
open, sponsor:WB4NKM

29.640 29.540 WT50 U.S.A. Texas/Bastrop Yes

29.640 29.540 WB5MPX U.S.A. Texas/Odessa Yes
open, closed autopatch, ctcss:151.4hz, sponsor:ARC

29.640 29.540 WB8CQV U.S.A. West Virginia/Charleston Yes
open, linked or crossband system, sponsor:WB8CQV, CW-ID:WB8CQV/RPT

29.650 29.550 JP8YCV JAPAN Hokkaido/Shiretoko Yes
TX-PWR:30W, ctcss:88.5hz, TNX for this Info to: JP2PHV@JA2BAS.19.JNET2.JPN.AS

29.650 29.550 WA1CBY U.S.A. Connecticut/Willimantic/ Yes
open Columbia

29.650 29.550 AA3RG U.S.A. Pennsylvania-ARCC/Berks/ Yes
open, emergency power, linked or cross- Pine Grove
band system to 2m, ctcss:110.9hz, Rogerbeep:double beep(--) for a incoming
signal from the 2m-band, sponsor:A.A.R.G., CW-ID:AA3RG/R, located about 100
miles northwest of Philadelphia (Info de N3OGS)

145.170 144.570 AA3RG U.S.A. Pennsylvania-ARCC/Berks/ Yes

open, emergency power, linked or cross- Pine Grove
band system to 10m, sponsor:A.A.R.G.

(END OF PART 16/27)

(PART 17/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/ Town	QRV?
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29.660	29.560	VK4RCC	AUSTRALIA	NW BRISBANE/Southside/ Camp Mountain	Yes
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open, PWR:10W ERP, T/O:3.0, ctcss:88.5hz, sponsor:QCG

The Southside Amateur Radio Society Inc. has VK4RCC the Clubs 10m repeater in operation. VK4RCC is also linked to the clubs 2m repeater VK4RAX. Should you hear an engaged tone (Beeping) on 29.660mhz this means that the 2m repeater is in use by an amateur not using the ctcss-tone required to key the 10m setup. All traffic on VK4RCC is also heard on the 2m side. Users are requested not to use voice processor or excessive microphone settings whilst working through VK4RCC as the transmitter and receiver are linked via radio link and audio levels have been set finely. It is easy to cause your output to be distorted. For SEQ users VK4RAX operates on 147.675mhz with a negative offset. A CTCSS tone of 91.7hz is required for access to VK4RCC. TNX for this Info to:
VK4BB@VK4BBS.#BNE.QLD.AUS.OC

29.660	29.560	OE1XKC	AUSTRIA	Vienna(Wien)	Yes
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438.675 431.075 OE1XKU connection with OE1XKC via ctcss-tone:162.2hz, TX-QTH:Simmering, RX-QTH:Laaerberg, the TX and RX are 3km apart, TX-ANT:1/2-wave dipole, RX-ANT:Fritzel GPA Mono GP 55m over ground, Voicemessage on OE1XKU: BITTE BEACHTEN SIE DIE FERNMELDETECHNISCHEN BESTIMMUNGEN, Rogerbeep on OE1XKU: 1-tone(low tone) for a incoming signal from 10m, T/O:8.0, TX and RX:Alinco mobil-TRX, link on 70cm-band, CW-ID:OE1XKC, open on the 10m-site, TX-locator: JN88EE, High:191m/HASL, PWR:40W, sponsor:Radio-Club Austria / OE1BAD. TNX for this Info to OE3KLU with his e-mail-adress: oe3klu@oevsv.at

29.660	29.560	ON0TEN	BELGIUM	Antwerpen	Yes
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open, CW-ID:DE ON0TEN, PWR:15W ERP, TX-QTH:JO21EE, Rogerbeep:1-tone(long), sponsor:ON7PG

29.660	29.560	VP2V	BRITISH VIRGIN ISLANDS	Virgin Islands	?
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PSE Info to DL6XB!

29.660	29.560	VE8NWT	CANADA	Northwest Territories/ Yellowknife/Yellowknife	Yes
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open, emergency power, linked or cross-band system, direct access to law enforcement, sponsor:VE8DP

29.660	29.560	DF0PIR	GERMANY	Pirmasens	No
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Planning in Locator:JN39TE, High:452m/HASL, Link on the 23cm-band, Sponsor:DF3UK

29.660	29.560	DF0RGB	GERMANY	Regensburg	No
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Planning in Locator:JN68AW, TX-High:360m/HASL, Link to DF0MOT on 70cm-band, Sponsor:DL5RDW

29.660	29.560	WR6AVM	HAWAII	Oahu/Honolulu	Yes
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open, ctcss:88.5hz, sponsor:UFN

29.660	29.560	CT0HCA	PORTUGAL	Lisboa/Amadora	Yes
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open, carrier operated, PWR:40W, ANT:vertical dipole, Voice:(Intro:Ding Dong) This is Lisbon repeater Charly Tango Zero Hotel Charly Alfa, link on 439.400mhz (with ctcss:192.8hz?), the TX and RX are 20 km apart. Equipment:10m from old valved ge, 70cm ge mvp 3W. Responsible:CT1DGZ, Licensed to ARAS ASSOCIACAO DE RADIOAMADORES DA AMADORA-SINTRA. TNX for this Info to CT1DBH@CS1AAS.CTLX.PRT.EU or e-mail: pissaro@mail.telepac.pt

(END OF PART 17/27)

(PART 18/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/ Town	QRV?
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29.660 29.560 KP3AV PUERTO RICO Toa Alta/County Toa Alta Yes
open, carrier operated, ANT:Antron A-99(1/2-wave), linked or crossband system
on 449mhz, CW-ID:DE KP3AVRPT, Rogerbeep:4-tone and then a end-1-tone(high tone)
, sporadic coupling with KP4IA on 29.620mhz output.

29.660 29.560 SK6RIC SWEDEN Alingsues ?
PSE Info to DL6XB! Sponsor:SM6HQL and SM6FDQ

29.660 29.560 SK3RHU SWEDEN Hudiksvall ?
PSE Info to DL6XB! Sponsor:SM3BVF

29.660 29.560 SK7RVI SWEDEN Lyckeby/Karlskrona Yes
TX-PWR:50W ERP, QTH near Karlskrona, CW-ID:KARLSKRONA, Rogerbeep:in CW "K"._. ,
linked or crossband system, Sponsor:SM7FGG

29.660 29.560 SK0RVM SWEDEN Stockholm Yes
Send a burst with 1750.0hz for 2-3 seconds and the repeater goes on air with
15 minutes-timer for TX, planning:Link on 10ghz and DTMF, TX-PWR:50W ERP,
Sponsor:SM0GXZ

(END OF PART 18/27)

(PART 19/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

=====
Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town
=====

29.660 29.560 HB9HD SWITZERLAND Brunnen (near Zuerich) Yes

To activate the repeater, transmit a 1750.0hz-tone burst of approximately 0,5
sec on the input frequency (29.560mhz) or -using a DTMF (touch tone) Mike- by
sending the sequence 8. Ensure your FM deviation not to exceed 2,2khz in peak.
This is mandantory to keep the 10khz spacing and to prevent others from being
interferred by our repeater.

- Regular mode:

Repeater is "standby", it needs to be activated by 1750.0hz-Tone or DTMF 8.
5-Tone (ZVEI) 51201 is also possible. "Squelch closed" is indicated by a fast
"HD" CW-Identification (similar to the "K" {over} on many VHF/UHF-Repeaters).
Transmitter Hang Time is about 5 seconds, then repeater remains active (to be
opened by a simple carrier) until a "QRT-CW-Identification is given (about 10
seconds). After that, repeater is "standby" again.

- Monitor mode (switched on by the sysops under special circumstances. TX ac-
tive on any signals on the input frequency):

Repeater is in "Hot Standby", it does not need to be activated by a certain
tone or code. Everything what is received at the RX is retransmitted on the
TX-frequency (Carrier Operation). If repeater is in Monitor mode, there is a
very short TX hang time (1 sec.). Every 10 minutes the CW-ID "HB9HD" is gi-
ven.

- Permanent TX (switched on by the sysops under special circumstances. TX al-
ways active, regardless of the presence of a carrier at the RX):

During 30 minutes maximum, a constant carrier is transmitted. Every signal at
the RX is retransmitted. CW-Beacon every 10 seconds: "HD", every 120 seconds:
"HB9HD TEST"

The main functions of the repeater are constantly checked. If a failure of any
kind occurs (Mains Power, HF Power Amplifier, high SWR and many other criteria)
, a CW-Alarm text is generated and sent out automatically. So the sysops know
before climbing the mountain what kind of failure is to be expected. The choice
of the right spare parts and tools is much easier that way.

PWR:55W, emergency power. CW-ID:HB9HD(in regular-mode all 10 minutes). Here are
the differences of the two QTH's: TX:Fronalpstock Kanton Schwyz SZ near Stoos:
High:1908m/HASL, Locator:JN46HX, Antenna:4m over ground. RX:near Goldau on the
mountain Rigi-Scheidegg: High:1665m/HASL, Locator:JN47GA, Antenna:9m over
ground. The RX and TX are 11km apart. Antennas:Antron A-99(1/2-wave), polariza-
tion:vertical. The Rogerbeep gives in the regular mode a "HD" in CW or a 1-tone
in the monitor-mode. The beacon-ID is:HB9HD 10M RPT JN46HX all 10 minutes in
slow-CW with no activity. When the power-supply(AC 230V) is down, the repeater
goes on emergency power and it gives a message in CW:ALARM. All 2 hours gives
the repeater in CW: R2 (it is a control-function from the HB9HD-RX). We look
forward to your rapports including a description of your antennas, polarization
, RX, locator etc. Please send your rapport to Markus, HB9CPW@HB9PD.CHE.EU or
hb9cpw@uska.ch

You always find the latest news and a lot of additional information about this
HB9HD-project at our internet home page: <http://www.hb9hd.ch>

Thank you for your help. Vy 73 es gd dx de HB9HD / HB9LBC@HB9OS.CHE.EU and
HB9CPW@HB9PD.CHE.EU or hb9lbc@uska.ch and hb9cpw@uska.ch
Sponsors of HB9HD-crew: HB9BUB, HB9BXR, HB9CPW, HB9LBC, HB9LCQ, HB9SJE
The Builder only for the RX and TX from HB9HD is Achim (Joe), DL7KH

(END OF PART 19/27)

(PART 20/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call- sign	Country	Federal State/ Town	QRV?
29.660 open, sponsor:WB4GMQ	29.560	WB4GMQ	U.S.A.	Alabama/Foley	Yes
29.660 open, ctcss:100.0hz, sponsor:KR4UD	29.560	KR4UD	U.S.A.	Alabama/Pelham	Yes
29.660 open, ctcss:156.7hz, sponsor:N6RKS	29.560	N6RKS	U.S.A.	California North-NARCC/ South Bay/San Jose	Yes
29.660 open, ctcss:107.2hz	29.560	K6TY	U.S.A.	California South/LA,OR,RIV, SBER/Arcadia	Yes
29.660 The TX-QRG is in this time 2khz higher also on 29.662mhz, open, CW-ID:WY4PR or WY4P MD PL 4A, ctcss:141.3hz, Rogerbeep:1-tone(high tone), see also the KB4TKQ repeater on 29.660mhz output, is it idently with KB4TKQ ??? PSE Info to DL6XB!	29.560	WY4P	U.S.A.	Florida/Miami	Yes
29.660 open, closed autopatch, emergency power, linked or crossband system, direct access to law enforcement, ctcss:103.5hz, sponsor:OARC	29.560	W4PLB	U.S.A.	Florida/Central-Orlando Area/ Orlando	Yes
29.660 open, emergency power, races affiliated, sponsor:MAFA	29.560	KF4QVP	U.S.A.	Florida/Southeast/ West Palm Beach	Yes
29.660 open, emergency power, linked or crossband system, wide area coverage system, ctcss:146.2hz, sponsor:unknown-assumed K4LK, TNX for this Info to n5tor@yahoo.com	29.560	K4LK	U.S.A.	Florida/West Central-Tampa/ St Petersburg Area/ St. Petersburg	Yes
29.660 open, link on the 440mhz, sponsor:K9KE, Voice:K9KE repeater, Voice:This is the K9KE repeater, Voice:This is the K9KE link repeater, Voice:From center USA this is the K9KE 2meter to 10meter link system, Voice: Hi, this is the K9KE system, Rogerbeep:3-tone, for the time the RX-squelch is open the TX transmitted a ctcss-tone (110.9hz?) on 29.660mhz.	29.560	K9KE	U.S.A.	Illinois/St.Louis/Godfrey	Yes
29.660 emergency power, linked or crossband system, ctcss:141.3hz, sponsor:KD3R, CW-ID:N3AUY/R MD PL 4A, Rogerbeep:2-tone	29.560	N3AUY	U.S.A.	Louisiana/Washington DC Area/ Silver Spring	Yes
29.660 emergency power, linked or crossband system, ctcss:156.7hz, sponsor:KD3R	444.025	N3AUY	U.S.A.	Louisiana/Washington DC Area/ Silver Spring	Yes
449.025 emergency power, linked or crossband system, ctcss:141.3hz, sponsor:KD3R	29.560	N3AUY	U.S.A.	Maryland/Silver Spring	Yes
29.660 ctcss:131.8hz, sponsor:WA1HZK	29.560	WA1HZK	U.S.A.	Massachusetts/Northeast/ Haverhill	Yes
223.980 ctcss:131.8hz, sponsor:WA1HZK	29.560	WA1HZK	U.S.A.	New Hampshire/South/Deerfield	Yes
29.660 open, linked or crossband system to 145.250mhz, CW-ID:K0LAV/R, sponsor:K0LAV	29.560	K0LAV	U.S.A.	Minnesota/MPLS-St Paul/ White Bear Lake	Yes

(END OF PART 20/27)

(PART 21/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/ Town	QRV?
29.660	29.560	AA7DG	U.S.A.	Montana/South Central/Bozeman	Yes
open, linked or crossband system, sponsor:BARBS					
29.660	29.560	K2NK	U.S.A.	New York-UNYREPCO/Oneonta/ Norwich/Walton	Yes
open, ctcss:107.2hz					
29.660	29.560	K4GRW	U.S.A.	North Carolina/Newport	Yes
open					
29.660	29.560	KB4TKQ	U.S.A.	North Carolina/Raleigh/ County Wake	Yes
open, linked or crossband system to 2m and 70cm, Voice:Hi this is operator Kliffy Bravo 4 Tango Kliffy Quebec repeater, Voice:Hi radio club PSE Info to DL6XB!, sponsor:KB4TKQ, see also the WY4P repeater on 29.660mhz output. Is it idently with WY4P ??? PSE Info to DL6XB!					
29.660	29.560	WW4C	U.S.A.	North Carolina/Sanford/ County Lee	Yes
open, CW-ID:WW4C					
29.660	29.560	N4JEH	U.S.A.	North Carolina/Rocky Mount/ County Nash	Yes
open, CW-ID:DE N4JEH RPTR ROCKY MOUNTNC, Rogerbeep:1-tone(a long high tone) and when the repeater makes QRT:5-tone(from a high tone to a low tone)					
29.660	29.560	WA8SMQ	U.S.A.	Ohio/Carroll/Malvern	Yes
emergency power, autopatch, linked or crossband system, direct access to law enforcement, races affiliated, sponsor:CC ARES					
29.660	29.560	W3BMD	U.S.A.	Pennsylvania-WPRC/Southwest/ Indiana	Yes
open, sponsor:ICARC					
29.660	29.560	KQ7E	U.S.A.	South Carolina/Sumter	Yes
open, emergency power, linked or crossband system, remote base, sponsor:SARA					
29.660	29.560	WA4YGM	U.S.A.	Tennessee/Union City	Yes
open, sponsor:RARC					
29.660	29.560	WB5BFW	U.S.A.	Texas/Dallas	Yes
open, Voice:This is the WB5BFW repeater Dallas ...(Text?)... PSE Info to DL6XB!					
29.660	29.560	W5DFW	U.S.A.	Texas/Keller/County Tarrant	Yes
Remote Base Assn, CW-ID:W5DFW					
29.660	29.560	WB5TTO	U.S.A.	Texas/Fort Worth	Yes
open, ctcss:192.8hz, sponsor:FW 29					
29.660	29.560	KD7BA	U.S.A.	Utah/Wasatch Front/Salt Lake	Yes
open					
29.660	29.560	N7JYW	U.S.A.	Washington-WWARA/Southwest/ Longview	Yes
emergency power, ctcss:114.8hz, sponsor:MARS					
29.660	29.560	WA8YWO	U.S.A.	West Virginia/Richwood	Yes
open, ctcss:100.0hz, sponsor:WA8YWO					

(END OF PART 21/27)

(PART 22/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/ Town	QRV?
29.660	29.560	NP2Y	VIRGIN ISLANDS	Caribbean Islands/St. Thomas	Yes
open, Rogerbeep:Ding Dong, link on 70cm-band, TNX for this Info to n5tor@yahoo.com					
29.670	29.570	LU5CBA	ARGENTINA	Cordoba/Cordoba	Yes

open

29.670 29.570 FZ1DIX FRANCE Savigny-le-Temple QRT?
open, QTH:25km southeast from Paris, Locator:JN18GN, Rogerbeep:"K" .-. in CW,
PSE give me more infos via the FZ1DIX-repeater for my 10m-repeaterlist to DL6XB

29.670? 29.570? DF0BSG GERMANY Braunschweig No
Planning in Locator:JO52FG, 125m/HASL, PWR:60W, Sponsor:DJ5VV

29.670? 29.570? DF0KIL GERMANY Luetjenburg (near Kiel) No
Planning in Locator:JO54GH, High:170m/HASL, coupling with DF0HHH,
Sponsor:DL5LBK

29.670 29.570 DF0TRA GERMANY Traunstein No
Planning in Locator:JN67HT, High:795m/HASL, Sponsor:DF7MW

29.670 29.570 DF0MOT GERMANY Wiesbaden/Taunus/Hohe Wurzel Yes
The repeater goes on air when you push to talk for 2 seconds PTT, RX-QTH: on a
high mountain: Field mountain in Taunus, RX-High:940m/HASL, RX-Locator:JO40FF,
TX-QTH: on a high mountain with name: High root, TX-High:720m/HASL, TX-Locator:
JO40BC, distance between TX and RX:28km, link system on 70cm, planning a link
on 70cm to DF0MHR and DF0RGB, TX-Antenna:1/4-wave-groundplane, TX-PWR:50W,
Responsible:DH1FAD

29.670 29.570 JR6YF JAPAN Okinawa/Urazoe Yes
TX-PWR:50W, Link on the 23cm-band, RX-QTH:Itoman, TNX for this Info to:
JP2PHV@JA2BAS.19.JNET2.JPN.AS

29.670 29.570 PI_____ NETHERLANDS Leeuwarden No
Planning in Locator:JO23UE. Responsible:VERON

29.670 29.570 KA1DFI U.S.A. Connecticut/New London/ Yes
open Montville

29.680 29.580 VK8RDX AUSTRALIA Northern Territory/Darwin Yes
CTCSS:123.0hz, PWR:120W, ANT:vertical, T/O:3.0 . There is a beep at the drop of
incoming carrier, and a series of beeps to indicate time out is about to occur.
TNX for this Info to VK8RH@VK8DA.DRW.#NT.AUS.OC

29.680 29.580 VK6RLM AUSTRALIA PERTH/Lesmurdie ?
planning, PWR:50W ERP, 300m/HASL, T/O:3.0, Simplex gateway linked to VK6RLM on
146.850mhz

29.680 29.580 VE2RGM CANADA Quebec-RAQI/Mauricie/ Yes
open, wide area coverage system, Grand Mere
sponsor:VE2CM

29.680 29.580 OZ6REX DENMARK Bredsten Yes
open, TX-PWR:20W(planning:100W), Locator:JO45QQ, TX/RX-antennas are 1/2-wave-
vertical and 100m/HASL, linked system on 70cm, RX and TX are 1km apart. The TX
is in the QTH Bredsten from OZ1BSL. Sponsor:OZ1BSL, Rogerbeep:No Beep?. TNX for
this Info to OZ1JUX@OZ8BOX.SIL.JYL.DNK.EU

(END OF PART 22/27)

(PART 23/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town

29.680 29.580 OH1RHU FINLAND Turku Yes
With tonecall 1750.0hz the repeater goes on air. CW-ID:DE OH1RHU or DE OH1RHU
LOC KP10DL TURKU QRV (the long-info all 10 minutes), PWR:20W, Locator:KP10DL,
the link is on 70cm, TX/RX-antennas:1/4-wave-groundplane (in test?:5/8-wave-
groundplane), distance between RX and TX are 3km, sponsor:OH1BX and OH1JX,
Rogerbeep:2-tone

29.680 29.580 DF0HFT GERMANY Osterholz-Scharmbeck No
Planning in Locator:JO43JG, High:72m/HASL, (near Bremen)
PWR:50W, Link via wire, emergency power, Antennas:5/8-wave-vertical, coupling
with DF0HHH, Sponsor:DL9BDX

29.680 29.580 DF0PDM GERMANY Potsdam (near Berlin) No
Planning in Locator:JO62NJ, TX-High:81m/HASL, TX-Antenna:5/8-wave-vertical,
RX-QTH-Locator:JO62MI on the hill "Kleiner Ravensberg", RX-Antenna:Magnetic
Loop AMA, RX-High:114m/HASL, Link on the 23cm-band, Sponsor:DL2RSI

29.680 29.580 DF0SIP GERMANY Sipplingen (near Konstanz) No
Planning in Locator:JN47NT, Sponsor:DL7KH

29.680 29.580 JP1YEE JAPAN Ogasawara ?
TX-PWR:50W, ctcss:88.5hz

29.680 29.580 CT0HPA PORTUGAL Pedro do Altar (Alcanena)/ Serra D'Aire Yes
open, 550m/HASL, Locator:IM59QM,
ANT:horizontal dipole (1/2-wave), PWR:40W, Link with 3 Watt on 439.425mhz,
ctcss:192.8hz, sponsor:CT1OQ, CW-ID:CT0HPA, licensed to ARCP associacao de
radioamadores da costa da prata. TNX for this Info to:
CT1DBH@CS1AAS.CTLX.PRT.EU and ct1va@mail.telepac.pt

29.680 29.580 NP4VG PUERTO RICO Catano Yes
open, linked or crossband system

29.680 29.580 SK6RFQ SWEDEN Goeteborg ?
PSE Info to DL6XB! Sponsor:SM6ETR

29.680 29.580 SK7RGI SWEDEN Joenkoeping ?
With tonecall 1750.0hz or DTMF-tone "6" goes the repeater on air, TX-PWR:20W
(ERP:35W), split sites with link on 70cm between RX and TX. The distance is 9
km. The TX and RX-Antennas are 1/2-wave-groundplane. The repeater sends ID and
QTH every 30 minutes. CW-ID:SK7RGI TEST SK7RGI QTH JONKOPING. With DTMF-tone
"9" gives a Info. Responsible:SM7LQQ and SM7NDX. Owner of the repeater is
SVARK, Sodra Vatterbygdens Amatorradioklubb. TNX for this Info to:
SM7NDX@SM7FEJ.F.SWE.EU

29.680 29.580 WA4MZL U.S.A. Alabama/Dothan Yes
ctcss:100.0hz, sponsor:WA4MZL

29.680 29.580 N5YU U.S.A. Arkansas/North Central/Clinton Yes
open, ctcss:151.4hz, sponsor:N5YU

29.680 29.580 N0EDS U.S.A. California North-NARCC/ North Bay/Clear Lake Yes
open, ctcss:156.7hz, sponsor:N0EDS

29.680 29.580 WA6SUV U.S.A. California North-NARCC/ Tahoe Sierra/Lake Tahoe Yes
open, ctcss:156.7hz, sponsor:WA6SUV

(END OF PART 23/27)

(PART 24/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/Town	QRV?
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29.680	29.580	K6BFS	U.S.A.	California South/LA,OR,RIV, SBER,VE/Johnstone Peak	Yes
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open, ctcss:107.2hz, sponsor:WEEVIL

29.680	29.580	KX0E	U.S.A.	Colorado/Colorado Springs/Colorado Springs	Yes
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tone access (ctcss tone) required to access the system, closed autopatch, sponsor:KX0E

29.680	29.580	KB1GA	U.S.A.	Connecticut/Hartford/Bloomfield	Yes
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tone-access (ctcss tone) required to access the system, CW-ID:KB1GA/R, sponsor:KB1GA

29.680	29.580	KA2MBE	U.S.A.	Florida/North Central/Ocala	Yes
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open, emergency power, linked or crossband system, sponsor:KA2MBE

29.680	29.580	KA4ZAY	U.S.A.	Florida/Southeast-Miami/Fort Lauderdale Area/Miami	Yes
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open, autopatch, linked or crossband system, bi-lingual system, ctcss:103.5hz, sponsor:KA4ZAY

29.680	29.580	KF4ZC	U.S.A.	Florida/West Central-Tampa/St Petersburg Area/Tampa	Yes
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open, linked or crossband system,

ctcss:100.0hz, direct access to law enforcement (usally 911), sponsor:KF4ZC

29.680 29.580 AI8H U.S.A. Georgia/Conyers Yes
open

29.680 29.580 N4BZJ U.S.A. Georgia/Dalton Yes
open, autopatch, linked or crossband system, sponsor:7.135 RPTR

29.680 29.580 KD9FA U.S.A. Illinois/Chicago/Chicago Yes
open, autopatch, linked or crossband system, sponsor:ACLR

29.680 29.580 AA9ME U.S.A. Illinois/St Louis/Mascoutah Yes
open, linked or crossband system, sponsor:AA9ME

29.680 29.580 WB5NIN U.S.A. Louisiana/Jonesboro Yes
open, sponsor:B.A.R.G., TNX for this Info to n5tor@yahoo.com

29.680 29.580 N5OMG U.S.A. Louisiana/New Orleans/
New Orleans Yes
open, emergency power, wide area
coverage system, direct access to law enforcement, linked or crossband system,
races affiliated, sponsor:N5OMG

29.680 29.580 WB0GUA U.S.A. Massachusetts/East/Boston Yes
ctcss:131.8hz, sponsor:WB0GUA

29.680 29.580 KA0JZV U.S.A. Minnesota/Duluth/Duluth Yes
open, linked or crossband system to 443.200mhz, CW-ID:KA0JZV/R, sponsor:KA0JZV

29.680 29.580 KD2RZ U.S.A. New Jersey-TSARC/Somerset/
Bridgewater Yes
ctcss:136.5hz, sponsor:KD2RZ

29.680 29.580 K2YBW U.S.A. New York-TSARC/Suffolk/
Setauket (#) Yes
open, autopatch, tone access (ctcss tone)
required to access the system, emergency power, linked or crossband system,
portable system, sponsor:K2YBW, the city/town where the repeater is located
a pound sign (#) following indicates the repeater is uncoordinated by the
coordination council

(END OF PART 24/27)

(PART 25/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Country Town
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29.680 29.580 WB2BQW U.S.A. New York-TSARC/Ulster/
Ellenville (#) ?
sponsor:WB2BQW, the city/town where the
repeater is located a pound sign (#) following indicates the repeater unco-
ordinated by the coordination council, see also the WB2BQW-repeater on 29.690
mhz output in my list(DL6XB)

29.680 29.580 N2HJD U.S.A. New York-UNYREPCO/Rochester/
Rochester Yes
open, linked or crossband system,
ctcss:123.0hz, sponsor:RRRA, Voice:N2HJD repeater, CW-ID:N2HJD/R

29.680 29.580 WB2JQK U.S.A. New York-WNYSORC/Niagara/
Williamsville Yes
open, DTMF, sponsor:tim/Wx,
Voice:WB2JQK repeater B U F F A L O N Y

29.680 29.580 WW4DC U.S.A. North Carolina/Thomasville QRT?
open, linked or crossband system. WW4DC now with new call:WW4FL ???

29.680 29.580 WW4FL U.S.A. North Carolina/Thomasville Yes
open, connection with many receivers, linked or crossband system, ctcss:88.5hz,
Voice:Acknowledgy your keeping of this repeater W W 4 F L, Voice: Congratula-
tion you are enter this the repeater song of WW4FL (and then example:good morn-
ing, the time is), Voice:This is the 2meter 6meter link machine W W 4 F L,
Voice:This is the 2meter 10meter link machine WW4FL, Voice:This repeater is
controlled by a PL of 88.5 hertz a e-contact WW4FL repeater, Voice:..(text?.).
. on 6meter link machine WW4FL, Voice:.....the 88.5 hertz PL this is
WW4FL repeater (example:good morning - and then QTR), (pse send me all the
voice mails for my new list to DL6XB!), CW-ID:WW4FL/RPT, Rogerbeep:1-tone and

3-tone (low-middle-high tone)

29.680 29.580 W8HHF U.S.A. Ohio/Woods/Rossford Yes
open, sponsor:TMRA

29.680 29.580 W3HZU U.S.A. Pennsylvania-ARCC/York/York Yes
open, emergency power, linked or crossband system, races affiliated, ares
affiliated, tone access (ctcss tone) required to access the system,
ctcss:123.0hz, sponsor:Keystone

29.680 29.580 N1RS U.S.A. Pennsylvania-WPRC/Pittsburgh/ Yes
open, autopatch, emergency power, linked Apollo
or crossband system, direct access to law enforcement, wide area coverage
system, races affiliated, ctcss:141.3hz, sponsor:SARA, Voice:N1RS
29.680 449.300 N1RS U.S.A. Pennsylvania-WPRC/Pittsburgh/ Yes
open, autopatch, emergency power, linked Apollo
or crossband system, direct access to law enforcement, wide area coverage
system, races affiliated, ctcss:131.8hz, sponsor:SARA

29.680 29.580 WG1A U.S.A. Rhode Island/W Greenwich Yes
ctcss:131.8hz, sponsor:WY1M

29.680 29.580 WB5TTS U.S.A. Texas/Edinburg Yes
open, ctcss:114.8hz

29.680 29.580 WB6CDN U.S.A. Utah/Wasatch Front/Salt Lake Yes
open, ctcss:162.2hz

29.680 29.580 WZ8E U.S.A. Virginia/Bluefield/One Yes
open, remote base, linked or crossband system, sponsor:ARA-SOUTH

(END OF PART 25/27)

(PART 26/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output Input Call- Country Federal State/ QRV?
(MHz) (MHz) sign Town
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29.680 29.580 KD4DN U.S.A. Virginia/Washington DC Area/ Yes
linked or crossband system, Sterling Park
ctcss:146.2hz, sponsor:KD4DN

29.680 29.580 W7UMH U.S.A. Washington-WWARA/Northwest/ Yes
open, emergency power, linked or Mt Constitution
crossband system, tone-access (ctcss tone) required to access the system,
ctcss:110.9hz, sponsor:WWARA

29.680 29.580 N9BBG U.S.A. Wisconsin/Southeast/Milwaukee Yes
open, ctcss:127.3hz, CW-ID:N9BBG/R, sponsor:W.E.R.A.

29.680 29.580 KC7NP U.S.A. Wyoming/Northwest/Cody Yes
closed autopatch, sponsor:KC7NP

29.690? 29.590? DF0EFT GERMANY Erfurt No
Planning in Locator:JO50MX, Sponsor:DL3AF

29.690 29.590 DF0LBG GERMANY Gerlingen (near Stuttgart) No
Planning in Locator:JN48MT, open, High:440m/HASL, TX-PWR:50W, Link on 23cm-
band, Antennas:7/8-wave-vertical, planning coupling with DF0REU, Sponsor:DK6TE

29.690 29.590 DF0HHH GERMANY Hamburg Yes
open, carrier operated, RX's/TX-Antennas:5/8-wave, TX-PWR:50W(planning:100W),
TX-Locator:JO43XN (on the building of the university) with 85m/HASL, 1.RX-Loca-
tor:JO43XN with 102m/HASL (distance to the TX:0,8km), 2.RX-Locator:JO43XK with
40m/HASL (distance to the TX:13km), planning a 3.RX in Locator:JO43WJ with
220m/HASL (distance to the TX:20km), CW-ID:DF0HHH HAMBURG all 5 minutes, plan-
ning in this year: real diversity-receiving with 3 receivers, voice-messages
(remote-controlled) and a digital-voice-recorder (recording-time:30 seconds and
with DTMF remote-controlled for the user on DF0HHH). Rogerbeep:3-tone. Link-
system between RX's and TX are on the 23cm-band, planning a coupling with
DF0HFT and DF0KIL, planning a coupling with the 70cm-city-repeater DB0WI on
438.850mhz output and on 431.250mhz input with a ctcss-tone:67.0hz linking to

the 10m-site on 29.690mhz. For the time when the RX-squelch from DF0HHH is open, the TX on 29.690mhz transmit a ctcss-tone:67.0hz, for a another repeater-coupling with no need link on the higher bands (a very fine idea from DL6XB!). Sponsor:DL6XB

 29.690 29.590 DF0REU GERMANY Reutlingen No
 Planning in Locator:JN48NM, TX-High:440m/HASL, TX-Antenna:5/8-wave-groundplane, TX-PWR:20W, Link on the 23cm-band, TX and RX are 4km apart, Sponsor:DL8SDL, planning coupling with DF0LBG

29.690 29.590 EI4GRC IRELAND Galway/Ballinruan/County Clare Yes
 145.625 145.525 EI4GRC IRELAND Galway/Ballinruan/County Clare Yes
 434.950 433.350 EI4GRC IRELAND Galway/Ballinruan/County Clare Yes
 Crossband and linked system to the 10m-site. With DTMF-tones *126 activate the repeater-system, with DTMF-tones *128 reactivate the repeater-system, linear-transponder-mode 10m<>2m included. Locator:IO53HO, 10m-PWR:50-60W, 10m-ANT: 1/2-wave, 300m/HASL, link on 70.260mhz, emergency power, e-wind, TX and RX are 15miles apart, Sponsor:Galway Radio Experimenters Club, EI4GRC and EI4HG. TNX for this Info to: ei4hg@iol.ie or ei4hg@ampr.org

(END OF PART 26/27)

(PART 27/27) 10M-REPEATERLIST WORLDWIDE BY DL6XB (Release: April 1999)

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Output (MHz)	Input (MHz)	Call-sign	Country	Federal State/ Town	QRV?
29.690	29.590	WB2BQW	U.S.A.	New York-TSARC/Orange/ Blooming Grove	Yes
open, linked or crossband system to 2m					
53.190	52.190	WB2BQW	U.S.A.	New York-TSARC/Orange/ Blooming Grove	Yes
open, linked or crossband system to 10m, sponsor:WB2BQW					
29.700	29.600	VA3PTX	CANADA	Ontario-WNYSORC/Central/ Pefferlaw	Yes
open, closed autopatch, emergency power, linked or crossband system, ctcss:156.7hz					
144.940	29.660	K2TKE	U.S.A.	New York-TSARC/Manhattan/ Setauket	Yes
open, emergency power, linked or cross-system, tone-access (ctcss tone) required to access the system, races affiliated, sponsor:WrdMlvHS					
147.690	29.680	K1NQJ	U.S.A.	Connecticut/Hartford/ Glastonbury	Yes
tone access (ctcss tone) required to access the system					
439.400	29.560	CT0HAR	PORTUGAL	Lisboa	Yes
Receiver-site, link to CT0HCA on 29.660mhz output with ctcss:192.8hz? TNX for this Info to CT1DBH@CS1AAS.CTLX.PRT.EU					
439.425	29.580	CT0HSA	PORTUGAL	Serra d'Aire (Alcanena)	Yes
Receiver-site, link with PWR:3W and ctcss:192.8hz to CT0HPA on 29.680mhz output, RX-Antenna: Horizontal Dipol(1/2-wave), Locator:IM59QM, 670m/HASL, sponsor:Associacao de Radioamadores da Costa de Prata (A.R.C.P.). TNX for this Info to: ctlva@mail.telepac.pt					
444.600	29.690	KA2JOB	U.S.A.	New York-TSARC/Suffolk/ Long Island/Centereach	Yes
open, linked or crossband system to 10m and 70cm, ctcss:146.2hz, sporadic connection with the 10m-repeater DF0HHH in Hamburg on 29.690mhz output.					

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