Bob Bruninga WB4APR 59 Southgate Ave Annapolis, MD 21401

The original goal of EASTNET to link the eastern seaboard from Washington DC to Boston was met more or less on August 6, 1984 when packets were exchanged via the repeater path WB4APR-6 in Elk Neck Maryland, WA2LQQ-O in Warwick NY, WORLI-O in Westford MA, and KD2S-1 in Lowell MA. Since that time numerous alternate paths have been exercised but the saturation of the primary link frequency of 145.01 MHz during prime evening hours has prevented routine end-to-end multi-hop paths.

About the time that saturation of 145.01 MHz occurred, the emergence of WORLI type bulletin boards based on the XEROX 820 system brought about a new pattern of operation which helped ease the multi-hop The WORLI bulletin board systems loading. (PBBS's) include an auto-forwarding feature which allows the PBBS's to update each other with messages destined individuals homed on their local PBBS. Βv programming these PBBS's to auto-forward on the link frequencies during non prime time hours, the need for long distance multi-hop Individuals with exchanges was minimized. messages for a distant user need only post the message on the local PBBS and at the same time pick up his mail using a direct path or at most a single hop connection.
So the result of auto-forwarding is a two
fold reduction in link traffic by encouraging all messages to be posted on local paths, and forcing the multi-hop regional forwarding to occur during off hours.

The next step in relieving congestion on 145.01 is to make the PBBS's frequency agile so that they are available to local users on a local frequency such as 145.05 during prime time and move over to 145.01 only during off hours at scheduled periods for auto-forwarding. In EASTNET we have already moved the WB4APR-5 HF BRIDGE system over to 145.05 and the local PBBS of KS3Q over to 145.09. The W3IWI PBBS remains on 145.01 to serve the link traffic until frequency agility has been achieved.

HF activity is stabalizing on 10,147.900 KHz with the WB4APRO bridge into Washington, K7PYKO into Tuscon, W9TDO into Chicago, and WORLIO into Masachusetts. K7PYKO shifts between 20M and 30M as conditions dictate and WORLIO comes up when time permits.

At a recent roadside gathering of enthusiasts from Virginia, Maryland, Virginia, Maryland, Jersey, Pennsylvania, and New Packet Repeater Mid-Atlantic Council (MAPRC) was formed to allow a unified representation of regional interests. An arbitrary territory of 100 miles radius about the primary link digipeater of WB4APR6 was chosen as the area of responsibility. A similar group, the Tri-State Packet Repeater Council (TSPRC) has recently been formed to cover Northern New Jersey, New York. Connecticut.

To encourage use of 220 MHz we will soon be putting a 221.02 MHz piggy-back radio on the WB4APR-6 digipeater. radio on the WB4APR-6 digipeater. The 221 MHz transceiver will be connected to the The 221 same TNC but will also be under subtone control to link directly to 145.01 avoiding the digipeater for stations which are so configured. The subtone control frequency is the reverse channel tone of 367 HZ which is already built into most 202 modems. Another possibility is the use of dual port software which is just becomming available to allow a XEROX 820 system to serve both channels. Our plans still include a number wideband channels and narrowband channels according to the following plan:

220.55		221.00	1	
220.65		221.02		
220.75	- wideband	221.04	narrow	band
220.85	100 KHz	221.06	20 KHz	
220.95		221.08		

Note that this is the same as what we proposed last year except that the narrow band channels have moved down 10 KHz to match the existing 20 KHz channel spacing on the band.

On the following maps all of the known wide area use packet repeaters indicated as well as the PBBS's and gateway Indications of 220 activity stations. should be considered to be in addition to the existing two meter operations at the same location. These maps are not expected 100 percent accurate and apologize for all those who were omitted but we just wanted to give a quick overview of packet activity in various areas of the We will attempt to update these country. maps periodically and make them available next year if you will help by forwarding any permanent updates to the above address.

















