Africa specially in a good propagation condition.

There are many OFFICIAL MONITORS appointed by various foreign radio stations and they are an important part of the station. It is their duty to monitor the broadcasts daily as informed by the station, to send a reception report covering number of days and to do band scan during the particular seasons. The author being an official monitor of two stations is sending reports along with technical remarks regularly. The listeners may know some stations have technical programs every week and they are promoting this fascinating hobby of BC DXing. One of the well known and most active station promoting the hobby is 'RADIO NEDERLAND' with the communication program presently known as 'Media Network'. The program covers and satisfies all listeners ranging from all categories irrespective whether they are coming from developed or under developed countries. In India very few listeners have satellite communication receivers, but in European countries everybody has changed over to satellite broadcast. Radio Japan has their technical program called 'Media Roundup' weekly on Sundays and they are sharing latest developments in

Electronic media with their listeners. 'Wave Scan' is a very informative DX program aired by Adventist World Radio Slouger which is available number of times on Sundays.

Well if you are tuning to the Ham Band at 8.30 hrs IST on the frequency 7080 KHz you will be hearing hams exchanging BC DX information. These discussions were carried on the "SWL DX NET" on Sunday morning and the net will keep you informed about the latest times and frequencies of foreign broadcasts. Every Sunday DX tips sent in by listeners all over India as well as abroad will be read with great interest by the Net Controller. Many well known Dxers join in every Sunday and share their views. One of the well known figure is Victor Goonetilaka-4S7VK the media reporter of Radio Nederland from Southern Asia, who has recently attended the European DX Council Conference in Copenhagen in Denmark. It possible try to listen to the 2nd edition of the net on all Sundays at 21.30 IST on 14150 KHz on USB and this is the world wide edition.

TRY TO BE PATIENT AND START BC DXING AND MAKE FRIENDS AROUND YOU.

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VHF YAGI (BEAM) ANTENNA FOR 2M RIG

By N.S.Harisankar, Palakkad.

1. Low SWR  -  1 : 1.2
2. Elements  -  12
3. Matching  -  Gamma
4. Frequency - 144 To 146 MHz
5. Gain      -  10 dB
6. Power Rating - 200W
7. Impedance - 50 Ohms

Yagi Antenna consists of three parts - reflector, dipole and director. It has a gain of 6 dB or more depending upon the number of director's used. Yagi Antenna does not transmit or receive in the direction of the Reflector but only in the direction of the directors it is like a torch light which radiates a Powerful beam of light in one direction.

In this beam (Yagi) antenna Gamma match is used for matching transmission line to antenna at low SWR. Raise the antenna to about 5 ft from the ground level, preferably in a vacant spot. Connect a good SWR meter to the Yagi. In the forward direction while transmitting for the full scale deflection. Now change to the Reverse direction (Reflected) while transmitting slide the stub to get the minimum reading. Now your antenna is SWR matched. The Beam antenna gives 10dB gain and also Power handling capacity up to 200W. Use RG 213/RG8U for Best Results.

"Wishing you, good Dxing with 2M Yagi"

73's

\[
\text{SWR} = \frac{F + R}{F - R} \quad \text{if 'F' = 10 and 'R' = .5, SWR is}\n\]

\[
\frac{10 + .5}{10 - .5} = \frac{10.5}{9.5} = 1.105 = 1:1
\]

\[
F = \text{Forward} \quad R = \text{Reflected}
\]
**3M 12 Element Beam**

All directors - 88.5 cm
Reflector - 99 cm
All elements - \( \frac{3}{8} \) (10 mm) Dia

**STUB for Gamma Match**

COAX

RG213 69
RG68U

Black Cover

Braid

Conductor

1 mm

10 cm

1 mm

15 cm

Aluminium Tube - \( \frac{3}{8} \) (10 mm) Dia

SWR ADJ

S0239
Driven Element & Gamma Match

Adjustable Metallic Strip

Aluminium Tube

88.5 cm

Measuring The SWR

So239

COAXIL

Transceiver

SWR Meter