

Microwave Cumulative Information Sheet 2/80

This is the second information sheet which we are producing before each microwave cumulative contest. In addition to 10 GHz, the following bands are associated with the following cumulative dates:

Date:	22 June	Band:	24 GHz
	20 July		5.7 GHz
	24 August		24 GHz
	21 September		3.4 GHz

Meetings: The next microwave round table at Winchester will be on Sunday 13th July at the IBA Research Centre, Crawley Court, near Winchester starting at about 10 am. There will be general discussion, some informal talks and test equipment for both wide and narrow band equipment will be available.

The Martlesham Radio Society are organising a round table at the P. O. Research Centre, Martlesham Heath, Ipswich for the 19th October. Further details will be announced later but it is expected that a very comprehensive set of professional test equipment for most of the microwave bands will be available.

Beacons: We apologise for GB3IOW not being back on yet. The 23 cm beacon will be finished in the next few weeks and it is hoped the beacon will be back on both 23 cm and 3 cm before the next cumulative.

24 GHz: Several short range QSO's have been made recently by G4CNV, who is very keen and willing to go out for tests during evenings or at weekends, and Hugh can also calibrate 24 GHz wavemeters. Contacts so far are G3PPF at 2km, G8DEK at 7km and G3FYX at 18km.

Nets: Dunstable Downs area Sunday even at 8.30pm local on 144.330MHz
Midlands & North West Thursday even at 10pm local on 144.190MHz
Please forward details of any other nets which are known to operate.

Talkback: On the subject of talkback, some people thought they had missed QSO's by the spread of talkback down to 144.180 MHz. This is a very difficult problem, but a lot of the talkback can probably be done near .330 provided that people are prepared to QSY away if there is any QRM. In this case, people should make an effort to return to .330 between QSO's.

Request from G8ARO: G8ARO has wideband equipment and 2m talkback, but no transport and wonders if there is anyone in the Guildford area who would be interested and willing to go out portable with him and provide the transport. He can be contacted on Guildford 33188.

Narrowband: There was a surprising number of people with narrowband equipment during the last cumulative and a number of other people are known to be in the process of constructing narrowband equipment (G3YGF reports he had 6 narrowband QSO's). The use of this type of equipment should result in a number of new obstructed paths being covered.

High Power: Several stations are now using relatively high power (above 1W), an increase of about 20 dB, so it will be possible to hear them over considerably longer and more obstructed paths using existing wideband receivers.

Antenna Test Range: G8AGN has offered to make the facilities of the aerial test range at Sheffield University available one weekend for any measurements on aerials from 1296 MHz to 10 GHz. Would anyone interested contact him to arrange a time on either home telephone no 0742 304888 or work number 0742 78555 ext. 5436.

Reports from 1st Cumulative: Reports have been received from the following stations on the last cumulative:

1. G3PFR Located The Yeld, 12 k E of Chester, worked G8AXE at Winter Hill (34km), G4HUP at Mow Cop (34km), both one way. Also G8ERE and G3NFB worked one way G4HUP from the same site. G3PFR reports that mechanical construction of his narrowband equipment is almost complete and he has built a 384 MHz source but is awaiting a SRD and has to solder up the filters before testing.
2. G3YJH Located Titterstone Clee, 9 k ENE Ludlow, worked 8 stations, all 2 way, and best DX was 85km. G3YJH is also building narrowband equipment and hopes to complete it soon.
3. G3ZIV Located in the N Yorkshire area, worked G8AGN near Sheffield (approx 65km) but reports of a distinct lack of activity in this area. G3ZIV also reports that G3NWU was out portable near Thirsk, N Yorks, but had equipment problems and it was not possible to make a QSO.
4. G6XM Located in the Purbeck Hills (Dorset), worked G2DSP and G4ETU at a site near Chichester and G3JHM located 4 k SW Petersfield. A number of other stations were contacted on 2m but it was not possible to complete a contact on 3cm due to obstructions in the path.
5. G4HUP Located on Mow Cop, YN70f, worked one way G3PFR, G8ERE and G3NFB all located at The Yeld (34km), and G8AXE on winter Hill (61km). Also a two way contact with G3YJH on Titterstone Clee (83km).
6. G3YGF Located on Walbury Hill (AM) and Cleeve Hill (PM) had 13 QSO's of which 6 were narrowband. Best DX was: 2 way high power narrowband QSO with G3JVL (144km) from Cleeve Hill to Hayling Is., 2 way low power QSO with GW3PPF (117km) from Walbury to Mynydd Maen (both WB & NB), and 1 way high power contact with G3YJH (139km) from Walbury to Titterstone Clee.
7. G3JHM G3JHM reports a 205 km 2 way contact with F8WN, with G3JHM located on Butser Hill.

Components: If anyone is having trouble obtaining any of the following components, G3YGF will probably be able to assist: Multiplier and mixer diodes for 10 GHz narrowband equipment, WG20 and flanges for 24 GHz, WG16 and flanges for 10 GHz (waveguide in either brass or copper) and GDO33 24 GHz Gunn oscillators.

The success of this newsletter still depends on your support in sending in details of your equipment, sites, and reports of results obtained in the last cumulative. The letter is being circulated to about 50 people at the moment, and we cannot maintain this circulation unless a significant fraction of this number cooperate.

About 10 people have sent in envelopes and news this time, but further enquiries have shown that people were very keen to receive the letter but had just forgotten to send reports or envelopes. PLEASE remember the deadline for the next edition is Saturday 12th July and the address is: J. N. Gannaway, G3YGF, 17 Crick Road, Oxford. We are interested in:

- (a) A summary of your results in the last cumulative
- (b) Full details of your gear including powers, frequencies available etc.
- (c) Where you are going for the next cumulative
- (d) Any comments on the contest, conditions, etc and any news.

A minimum of 15p is needed to cover the cost of duplicating, but donations above this would be gratefully accepted to enable as wide a circulation as possible to be maintained. Information, envelopes etc will also be accepted at the Winchester Round Table on July 13th.

73 de G3YGF, G4CNV and G8RHI.