

P5

The newsletter of the Severnside Television Group

June 2000

She's back again!

A message from your Chairperson

Well folks (tis that woman again) – I am back. As most of you know, I was Chairperson for the STG from 1989 to 1994, so yer we go into the 21st century and things can only get better.

I would like to thank Ross G0WJR for being chairman for the last year – a job well done.

We are losing two more committee members, Mike G7GTN, thanks for all the work you have done with the STG aerials and web pages and also to Matthew G0ECM who has helped many a time manning the STG stand at rallies.

The new committee is

Chairperson: Viv Green. G1IXE
Vice-Chairperson: Ian Bennett. G6TVJ
Secretary: Pat Hellen. SWL
Treasurer: Jackie Thorne. SWL
Other members are Ivor G1IXF, Jim GW3PYX, Brian GW6BWX, Dave GW0ROL and Roger GW4UGI.

As a team, we hope to have an ATV fun day on the Mendips in July, weather permitting. We must be mad or something like that!

We need you, so if you have not yet renewed your membership, please find a renewal form with this P5. The membership fee is still only £6 per annum.

That's all from me folks,
Viv, G1IXE.

SUNDAY 25th JUNE 2000

THE MILLENIUM LONGLEAT



AMATEUR RADIO RALLY

STG will be attending the Longleat Rally again this year. The rally has run for 43 consecutive years, making it one of the longest running and most successful rallies in the country. It is not only famed for its trade show but also for being a family and social event with many families returning year after year to meet friends old and new.

Last year the attendance was close to 5,000 with coaches from all over the country converging on the event. The organisers have already booked a day of sunshine to make sure this years attendance is as good or better than last years.

For the non-techies and other members of the family there will be a craft fair and of course the other attractions of Longleat Park will also be available.

Longleat is just off the main A36 trunk road, near Warminster in Wiltshire. Follow the brown tourist signs for Longleat house, NOT the Safari Park.

If you haven't paid your subs yet, you may be fed to the lions.

Millennium Contest

As mentioned in previous newsletters, the Group is running an informal cumulative contest this year. The full rules were published in the December 1999 P5 (see <http://www.qsl.net/stg/news.HTML>).

Ross has sent in details of his claimed scores to date:

STG Millennium Trophy Contest					Portable section			G0WJR/P		
Session	Date	from location	Station worked	at location	Distance (km)	Frequency (MHz)	Power (mW)	Power (dBm)	Picture identified	Points
1	26th Mar	Dundry	G1HIA	Bristol	11	10315	10	10	Farm machinery	11347
			G6TVJ	Bristol	15	10315	10	10	Dundry Church	15473
2	9th Apr	Dundry	G1HIA	Bristol	11	2330	2	3	Banana skin	8514
			G4BVK	Bristol	11	2330	2	3	M1EOL in front of tree	8514
3	24th Apr	Winter Hill	G7WFS	Runcorn	30	1250		29	green jumper	1293
			G3SMU	Bolton	1	1250		29	Burndept microphone	43
			G7IZX	Runcorn	30	1250		29	tree	1293
			G7ROF	Liverpool	30	1250		41	Reebok Stadium	915
			G7LLQ	Liverpool	30	1250		41	Jodrell Bank dish	915
			G8GTI	Liverpool	29	1250		41	head through car window	884
			G7OAR	Telford	102	1250		41	Public Footpath sign	3110
			G8FHD	Liverpool	28	1250		41	Bolton Town Hall	854
			M1EEV	Birkenhead	37	1250		41	Jaybeam aerial	1128
			MWOARV	Wrexham	73	1250		41	callsign caption	2226
4	1st May	Tog Hill	G1HIA	Bristol	15	10315	10	10	Rachel's blue wellies	15473
			G1HIA	Bristol	15	1260		29	Battenberg cake	652
			GW8BVI	Caldicot	30	1260		29	red toolbox	1303
			G0SYF	Wotton-u-Edge	22	1260		41	ice-cream van	676
			Total points (after 4 sessions)							

The scoring period runs until the end of November, so there's still plenty of time to have a go. Prizes will be awarded to the leading Portable and Fixed stations at the end of the year.

PS if your abacus and slide-rule can't cope with the scoring system, contact Ross, who has developed an *Excel* spreadsheet, which can work out the points at the click of a mouse.

New media centre at-Bristol

Earlier in the year, we received an email message from Mario Di Maggio, the then Scientific Development Officer of the new *Explore at-Bristol* centre:

"As you probably well know, *Explore at-Bristol* is an exciting new science centre opening on Bristol's developing Waterfront this summer; please visit us electronically at:

<http://www.at-bristol.org.uk>

I have just joined the education team, and have been made responsible for the education/public programme of the "You Are Connected" gallery.



Apart from numerous exhibits demonstrating how digital technology is revolutionising global communications, this exciting state-of-the-art gallery includes TWO well-equipped television studios :

(1) *TV Studio* - a versatile performance space for lectures, demonstrations and group events, equipped with basic multi-camera TV recording and editing facilities.

(2) *Play TV* - a well-equipped, hands-on TV role playing and studio production area for children.

I am in the process of contacting individuals/organisations that would possibly be interested in collaborating with us in making use of these new facilities (all free of charge if for non-commercial purposes of course)."

Looks like it will be well worth a visit. Mario's successor, Kathy Sykes, came along to our AGM in April, and was interested in setting up a receiver for GB3ZZ down there, as part of the exhibits.

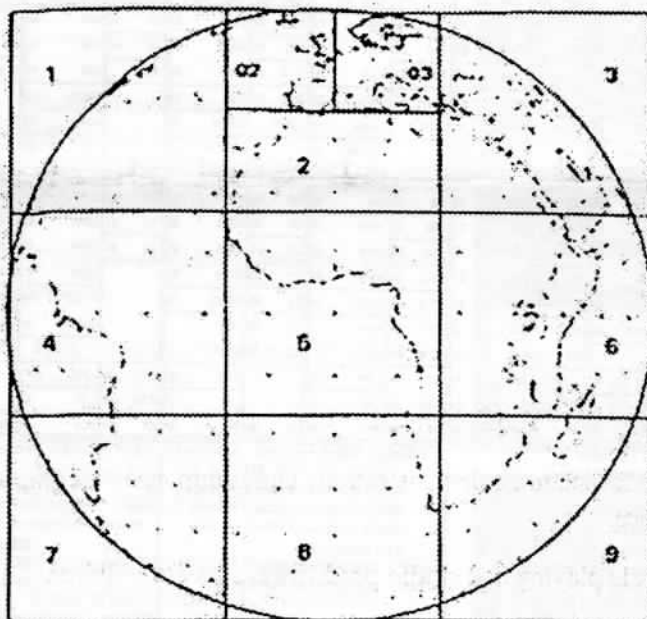
The Meteosat Schedule.

As you will no doubt know, keying page numbers between 60 and 69 makes GB3ZZ show the "live" weather picture from one of the Meteosat satellites. Actually, only codes 60, 61 and 62 are valid, the others are duplicates of page 60, reserved for future developments. The pictures are only live in that they are received in real time from the satellite, in fact they are first received in Germany where coastal outlines and grid markers are added then sent back to the satellite for distribution. It is the distribution version of the picture that GB3ZZ picks up. There are two distribution downlinks, channel A1 and A2, they are both just above 1.6GHz and the receiver at the repeater selects one or the other by keying 61# or 62#. If you want to know which is currently being monitored, use the status page (*81#) which tells you this and more about the repeaters present state.

To understand what the picture is showing, you need to look at the text in the top corner of the image. Almost all the pictures in visible format (some cannot be resolved by GB3ZZ's receiver) are labelled with a letter "D" followed by a number. This number identifies which portion of the globe is in the picture. The satellite sees approximately half the globe from its position in orbit and the ground processing splits this into nine sections, rather like the hatch on a noughts and crosses game. The sections start with number one in the top left corner and finish with nine in the lower right corner. The section showing Great Britain is numbered 2 and is easily discernible by the constant cloud cover! "D" pictures are taken with the satellite camera lens filtered so that only Infra Red light is seen. Some are labelled "C" for visible light and some "WV" for Water Vapour are filtered so only Ultra Violet light is seen. Obviously the visible light pictures are only of use during daylight hours and are mostly concentrated around mid-day. The UV image shows strange swirls of light that rarely coincide with ground outlines, they are actually showing light reflected from water vapour high in the atmosphere.

How to read the dissemination Schedule.

Although it looks complicated at first glance, the schedule does make sense. It is split into 24 hour-long boxes starting with 00 at the top left and working down the page. These are the hours of the day. The minutes into each hour are in the leftmost column. Each hour box is divided into two columns, the first is headed "CH A1" and is the channel one schedule seen by keying *61#. The second column is headed "CH A2" and is for channel two, selected with *62#. Each of the individual time slots contains a code and number, these can be decoded in the table at the bottom of the listing. None of the "HRI" formats can be decoded by GB3ZZ and as the images are held in a frame store, the last received image will still be displayed for their duration.



Meteosat C-, CnD-, D-, E-formats

Notes on channel selection.

*61# selects channel A1

*62# selects channel A2

These not only select the channel but display it through the repeater for 40 seconds.

*60# displays the last selected channel for approximately 4 minutes.

As the majority of useful images are on channel A1, after 30 minutes of inactivity, the repeater automatically reselects it.

The map on the left shows the nine regions of the globe that are listed in the dissemination schedule.

DISSEMINATION SCHEDULE S9904M01 - METEOSAT at 0° W

Temporary replacement of GOMS by ITOT. Valid from 01.04.99, 08:30 UTC.

HH	0 0		0 3		0 6		0 9		1 2		1 5		1 8		2 1		HH
	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	
2	D1 48	AIW 48	D1 06	AIW 06	C02 12	AIWH 12	C02 18	AIWH 18	C02 24	AIWH 24	C02 30	AIWH 30	D1 36	AIWH 36	D1 42	AIWH 42	2
6	D3 48	AIW 48	D3 06	AIW 06	C03 12	AIWH 12	C03 18	AIWH 18	C03 24	AIWH 24	C03 30	AIWH 30	D3 36	AIWH 36	D3 42	AIWH 42	6
10	D4 48	AIW 48	D4 06	AIW 06	D1 12	AIWH 12	D1 18	AIWH 18	D1 24	AIWH 24	D1 30	AIWH 30	D4 36	AIWH 36	D4 42	AIWH 42	10
14	D5 48	DTOT 48	D5 06	DTOT 06	D3 12	BW 12	D3 18	BW 18	D3 24	BW 24	D3 30	BW 30	D5 36	BW 36	D5 42	DTOT 42	14
18	D6 48	DTOT 48	D6 06	DTOT 06	D3 12	LXVH 12	D3 18	LXVH 18	D3 24	LXW 24	D3 30	LXVH 30	D6 36	LXVH 36	D6 42	DTOT 42	18
22	D7 48	ETOT 48	D7 06	ETOT 06	D4 12	DTOT 12	D4 18	DTOT 18	D4 24	DTOT 24	D4 30	DTOT 30	D7 36	ETOT 36	D7 42	ETOT 42	22
26	D8 48	AEST 01	D8 06		D5 12	ETOT 12	D5 18	AEST 01	D5 24	CTOT 24	D5 30	CTOT 30	D8 36	ETOT 36	D8 42	AEST 01	26
30	D2 01	BIW 01	D2 07	BIW 07	D6 12	ADMN 12	D6 18	AEST 01	D6 24	LXVH 24	D6 30		D8 36		D8 42	AEST 01	30
34	D9 01	AIW 01	D9 07	AIW 07	D2 13	BIV 13	D2 19	BIV 19	D2 25	BIV 25	D2 31	BIV 31	D2 37	BIV 37	D2 43	BIV 43	34
38	D1 01	AIW 01	D1 07	AIW 07	C02 13	AIWH 13	C02 19	AIWH 19	C02 25	AIWH 25	C02 31	AIWH 31	D9 36	AIW 36	D9 42	AIW 42	38
42	D3 01	AIW 01	D3 07	AIW 07	C03 13	AIWH 13	C03 19	AIWH 19	C03 25	AIWH 25	C03 31	AIWH 31	D1 37	AIW 37	D1 43	AIW 43	42
46		AEST 01		AEST 01	C3 D 13	AIWH 13	C3 D 19	AIWH 19	C3 D 25	AIWH 25	C3 D 31	AIWH 31	D3 37	AIW 37	D3 43	AIW 43	46
50		AEST 01		AEST 01	C2 D 13	AW 13	C2 D 19	AW 19	C2 D 25	AW 25	C2 D 31	AW 31		ADMN			50
52					D3 13	AW 13	C2 D 19	AW 19	C10 25	E_XI 25	D3 31	E_XI 31		E_XI 36		E_XI 42	52
54		E_XI 48		E_XI 06	D1 13	E_XI 12	D1 19	E_XI 18	D1 25	E_XVH 24	D1 31	E_XVH 30		E_XVH 36		E_XVH 42	54
58		L_XI 02		L_XI 06	D1 13	L_XI 14	D1 19	L_XI 20	D1 25	L_XI 25	D1 31	L_XI 30		L_XI 36		L_XI 42	58
58	D2 02	BIW 02	D2 08	BIW 08	D2 14	BIW 14	D2 20	BIW 20	D2 26	BIW 26	D2 32	BIW 32	D2 38	BIW 38	D2 44	BIW 44	58

HH	0 1		0 4		0 7		1 0		1 3		1 6		1 9		2 2		HH
	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	
2	D1 02	AIW 02	D1 08	AIW 08	C02 14	AIWH 14	C02 20	AIWH 20	C02 26	AIWH 26	C02 32	AIWH 32	D1 38	AIWH 38	D1 44	AIW 44	2
6	D3 02	AIW 02	D3 08	AIW 08	C03 14	AIWH 14	C03 20	AIWH 20	C03 26	AIWH 26	C03 32	AIWH 32	D3 38	AIWH 38	D3 44	AIW 44	6
10		AIW 02	E1 08	AIW 08	D7 14	AIWH 14	D7 20	AIWH 20	D7 26	AIWH 26	D7 32	AIWH 32	E1 38	AIWH 38		AIW 44	10
14		LY 48	E2 08		D8 14	BW 14	D8 20	BW 20	D8 26	BW 26	D8 32	BW 32	E2 38	BW 38		LY 44	14
18		LY 48	E2 08	LXVH 08	D8 14	LXVH 14	D8 20	LXVH 20	D8 26	LXVH 26	D8 32	LXVH 32	E2 38			LY 42	18
22		LR 48	E3 08	LY 08	D9 14	LY 12	D9 20	LY 18	D9 26	LY 24	D9 32	LY 30	E3 38	LY 36		LR 42	22
26			E4 08	LR 08	D3 14	LR 12	D3 20	LR 18	D3 26	LR 24	D3 32	LR 30	E4 38	LR 36			26
30	D2 03	BIW 03	D2 09	BIW 09	D2 15	BIV 15	D2 21	BIV 21	D2 27	BIV 27	D2 33	BIV 33	D2 39	BIV 39	D2 45	BIW 45	30
34	D1 03	AIW 03	D1 09	AIW 09	C02 15	AIWH 15	C02 21	AIWH 21	C02 27	AIWH 27	C02 33	AIWH 33	D1 39	AIWH 39	D1 45	AIW 45	34
38	D3 03	AIW 03	D3 09	AIW 09	C03 15	AIWH 15	C03 21	AIWH 21	C03 27	AIWH 27	C03 33	AIWH 33	D3 39	AIWH 39	D3 45	AIW 45	38
42		AIW 03	E5 09	AIW 09	D1 15	AIWH 15	D1 21	AIWH 21	D1 27	AIWH 27	D1 33	AIWH 33	E5 39	AIWH 39		AIW 45	42
46		J_XVXH 48	E7 09	J_XVXH 09	D3 15	J_XVXH 12	D3 21	J_XVXH 18	D3 27		D3 33		E7 39			J_XVXH 42	46
50		W_XVXH 01	E8 09	W_XVXH 09		W_XI 13	C1 D 21	W_XI 19	C1 D 27	J_XI 24	C1 D 33	J_XI 30	E8 39	J_XI 36		W_XVXH 42	50
54		GMSN 48	E9 09	GMSN 09	C2 D 15	GMSN 12	C2 D 21	GMSN 18	C2 D 27	W_XI 25	C2 D 33	W_XVXH 31	E9 39	W_XVXH 37		GMSN 42	54
58	D2 04	BIW 04	D2 10	BIW 10	D2 16	BIW 16	D2 22	BIW 22	D2 28	BIW 28	D2 34	BIW 34	D2 40	BIW 40	D2 46	BIW 46	58

HH	0 2		0 5		0 8		1 1		1 4		1 7		2 0		2 3		HH
	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	CH A1	CH A2	
2	D1 04	AIW 04	D1 10	AIW 10	C02 16	AIWH 16	C02 22	AIWH 22	C02 28	AIWH 28	C02 34	AIWH 34	D1 40	AIW 40	D1 46	AIW 46	2
6	D3 04	AIW 04	D3 10	AIW 10	C03 16	AIWH 16	C03 22	AIWH 22	C03 28	AIWH 28	C03 34	AIWH 34	D3 40	AIW 40	D3 46	AIW 46	6
10	TEST	AIW 04	ADMN	AIW 10	C3 D 16	AIWH 16	C3 D 22	AIWH 22	C3 D 28	AIWH 28	C1 D 34	AIWH 34	TEST	AIW 40	ADMN	AIW 46	10
14		GMSX 48		BW 10	TEST	BW 16	C4 D 22	BW 22	C4 D 28	BW 28	C4 D 34	BW 34		GMSN 40		GMSX 46	14
18		ADMN		GMSX 06		GMSX 12	ADMN	GMSX 18	TEST	GMSN 24	ADMN	GMSN 30		GMSX 36		TEST	18
22		L_XVXH 04		L_XVXH 10		L_XVXH 16		L_XVXH 22		L_XVXH 28		L_XVXH 34		L_XI 40		L_XI 46	22
26																	26
30	D2 05	BIW 05	D2 11	BIW 11	D2 17	BIW 17	D2 23	BIW 23	D2 29	BIW 29	D2 35	BIW 35	D2 41	BIW 41	D2 47	BIW 47	30
34	D1 06	AIW 06	D1 12	AIWH 11	C02 17	AIWH 17	C02 23	AIWH 23	C02 29	AIWH 29	D1 35	AIWH 35	D1 41	AIWH 41	D1 47	AIW 47	34
38	D3 06	AIW 06	D3 12	AIWH 11	C03 17	AIWH 17	C03 23	AIWH 23	C03 29	AIWH 29	D3 35	AIWH 35	D3 41	AIWH 41	D3 47	AIW 47	38
42		AIW 06	E1 11	AIWH 11	C5 D 17	AIWH 17	E1 23	AIWH 23	C5 D 29	AIWH 29	E1 35	AIWH 35		AIWH 41	E1 47	AIW 47	42
46		AEST 02	E2 11	AW 11	C6 D 17	AEST 02	E2 23	AW 23	C6 D 29	GMSX 24	E2 35	GMSX 30		AEST 02	E2 47	AEST 01	46
50		AEST 02	E3 11	AW 11	C7 D 17	AEST 02	E3 23	AW 23	C7 D 29	ADMN	E3 35	TEST		AEST 02	E3 47	AEST 01	50
54			E3 11	AW 11	C7 D 17		E3 23	AW 23	C7 D 29	ADMN	E3 35	TEST			E3 47		54
58	CTH 08	L_XW 08		L_XW 11	CTH 16	L_XW 17		AV 23	CTH 28	L_XW 29		L_XW 35	CTH 40	L_XW 41		L_XW 47	58
	CTH 08	L_XI 08		L_XI 12	CTH 16	L_XI 16		AV 23	CTH 28	L_XI 30		L_XI 36	CTH 40	L_XI 42		L_XI 48	
	D2 08	BIW 08	D2 12	BIW 12	D2 18	BIW 18	D2 24	BIW 24	D2 30	BIW 30	D2 36	BIW 36	D2 42	BIW 42	D2 48	BIW 48	58

METEOSAT WEFAX Formats C'n' Sector 'n' VIS Full Res C'n' D Sector 'n' VIS Half Res D'n' Sector 'n' IR E'n' Sector 'n' WV CTOT Full Disc VIS DTOT Full Disc IR ETOT Full Disc WV ITOT Full Disc IR INDOEX CTH Cloud Top Height Product ADMN Administration Message TEST Test Pattern	METEOSAT HRI Formats AIWH Full Disc IR & Half Res VIS AW Full Disc WV AV Full Disc Full Res VIS AIW Full Disc IR & WV BIW European Sector IR & WV BIV European Sector IR & Full Res VIS BW European Sector WV L_XI HRI Full Disc Half Res. IR L_XVH HRI Full Disc Half Res VIS south L_XW HRI Full Disc Half Res. WV <small>(I prefix used in the schedule as MET-5 Indian Ocean indicator)</small> ATEST 01 Test Pattern (Identified as AW 01)	Foreign Wefax Formats (uplinked by CMS Lannion) LY GOES-E WEFAX Sector N. America IR LR GOES-E WEFAX Sector S. America IR LZ GOES-E WEFAX Sector N. America, East Coast VIS GMS'x' GMS WEFAX Sector 'x' IR GOMS GOMS WEFAX Full Disc IR	Foreign HRI Formats XJ HRI Full Disc IR XVH HRI Full Disc Half Res VIS <small>Prefixes used in the schedule as satellite indicators:</small> E.: GOES-E W.: GOES-W J.: GMS ATEST 02 Test Pattern (Identified as AW 02)
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Ranging gap' HRI encrypted data in 'bold'



TV DX News

Stephen Michie. G7KXD

Some news,

Major Tropo opening Sept 10th '99
0745 SVT1 Sweden VHF Ch E11
Band 3 also UHF TX Ch E43 also
DR1 Denmark Ch E7 rare here.

7th Nov '99 F2 Gayer Irib Iran TV
showing ghostly Mullah? At 09:38

11/11/99 out of season SPE RAIUno
1A/1B also Tva private station
Naples area at 1035.

17/1/00 Dutch Belgium also French
VHF + FM radio tropo.

First new season SPE 284/00
RAIUno Italy 1A/1B.

Some meteor shower on 5th May
0829 DR1 Denmark showing
PM5534 this TX often comes in like
this at this time 0600\0800 also tropo
scatter NED1 E4 Lopik Belgium
Wavre RBF E8 VRT TV1 E10 SPE
5/5/00 0940 SVT 1 Sweden subtitled
progs.

Stephen submitted photocopies of
off-screen photographs showing a
selection of DX testcards and other
exotic programs.

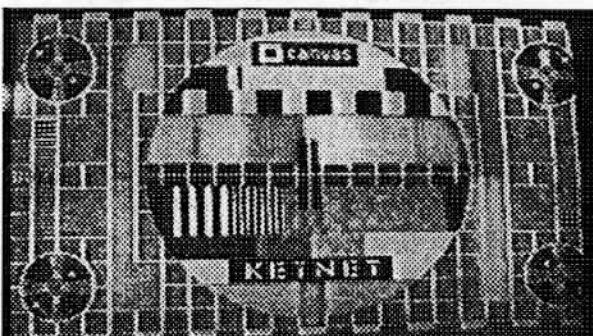
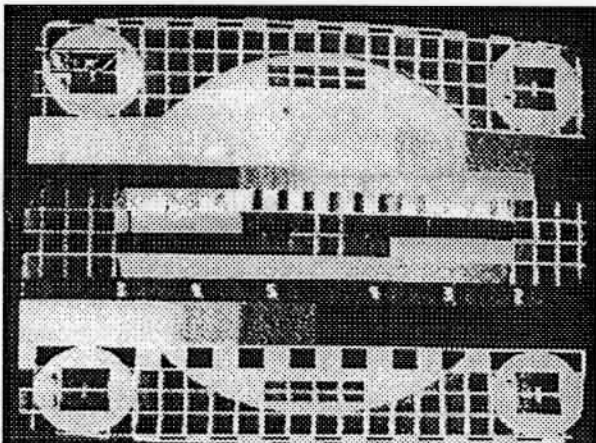
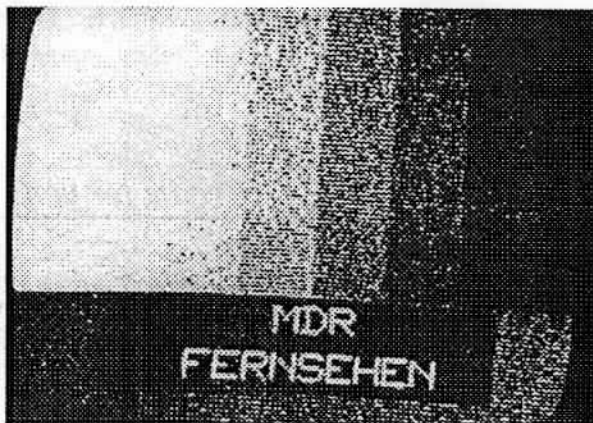
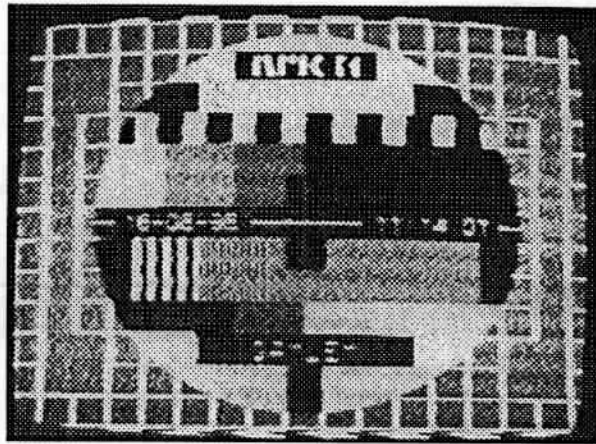
The ones reproduced here are, top to
bottom:

NRK1 Norway Gamlem TX PM5534
dated 16/05/99

Germany
Archive July 92 MDR TP Brucken
former DDR TX Ch E34

Vilnius CTV G204 Russian type TC.
Note white Vilnius CTV caption
below letterbox pattern.

Belgium Canvas/Ketnet (BRT TV2)
widescreen PM5544 wver\oversize
TX Ch E62 seen Aug 98.



Loan equipment

STG has a number of items available for loan to members:

- "Solent" 23cm transmitter with synthesizer for 1249 and 1255MHz, as used recently by GIUSW and GW8BVI (*but you don't have to be called Phil to borrow it!*).
- Ready-built 18-element yagi with co-ax attached, together with 20-element extension, support bracket and clamp.
- 23/13cm amplifier 1mW to 0.5W.
- 10GHz transceiver, comprising 2ft parabolic dish with penny feed, Gunn diode unit with modulator, converted LNB, and waveguide switch; (just add a camcorder, satellite receiver and monitor, and you're ready to go).

Contact a Committee member if you would like to arrange to borrow any of these items.

Items for sale

- Frequency counter 10Hz to 200MHz with prescaler to 1.5GHz
- New 90cm satellite dish with LNB mount
- Used 60cm satellite dish with LNB mount
- Converted LNB with 9.1GHz LO.
- BSB dish with converted LNB (11.3GHz LO, so needs receiver with video inverter)
- Solfan Gunn oscillator unit, ready tuned for 10.315GHz, complete with circular waveguide horn to G3PHO design.

Offers to Ross g0wjrr@qsl.net or tel. 0117 973 8794

Events for your calendar

- Longleat rally 25th June.
- We hope to have a few activity days on ATV on the weekend of 7th 8th 9th of July, from the contest site, hopefully 10 watts on 10GHZ. 70 watts on 1.3GHZ 1 watt? 2.3GHZ.

Loose Ends

Sorry, but P5 was very short of material this issue. The change of committee meant we lost the previous editor and publisher, leaving the new committee with the unenviable task of starting from scratch. On a temporary basis, I am wearing the editor's hat and Viv is taking care of the printing and distribution. If anybody would like to take over as editor I would be very pleased to hear from him or her. The job isn't difficult but does require some familiarity with a word processor and the ability to decipher some of the hand written articles that are sent for publication. Of course, every assistance would be given to a newcomer to ease them into the job and the other committee members will rally around if help is needed.

For the next issue we badly need your articles and photographs, at the moment there are no articles in the reserves whatsoever. As long as they are ATV related and likely to be of interest to other readers, please send your missives. Tidying up of the text and grammar can be left to the editor and there is no need to lay out pages ready for printing, we can take care of that for you. Until a replacement steps forward, please either post your submissions to :

The Editor, P5.
12 Cotswold Way,
Risca,
Gwent. NP11 6QT

Or e-mail them to me at "BetwixtBBS@cs.com".
Brian Kelly. GW6BWX. Acting editor.