1. OSCAR-11 TELEMETRY DECODING by G3CWV.
ASCII and binary data. Documention 4 pages A4.

2. OSCAR-11 WOD DECODING by G3CWV.
ASCII and binary data. Documentation 6 pages A4.

Disks 1 & 2 do not require a separate hardware decoder, although one may be used if available. These are the ONLY programs which decode binary data from OSCAR-11.

3. SBASE. Keplerian data base by G3CWV.
A kit of parts which may be used to enhance many satellite tracking programs. Examples of applications included. Documentation 7 pages A4.

4. ORBITS by G3ZSX.
A suite of programs for satellite tracking and mission analysis. Documentation 13 pages A5.

5. KERMIT.
A data transmission system for sending files between two computers, of the same or different type. This is the program for the BBC end of a link. Documentation one page A4.

6. PACKET RADIO. A selection of PD programs. Documentation on disk

7. SATELLITE TRACKING. SATELS by G4DF.
A simple tracking program based on James Miller's OSCAR10.BAS code as published in OSCAR News December 83, and extended to other satellites. Also included on this disk are two PD programs SATORB and SATPROG. Documentation one page A4.

8. UOSAT DATA DISPLAY. Craig Underwood of UoS.
For ASCII TLM and WOD from OSCARs 9 and 11. Needs hardware decoder. Real-time operation. Documentation 9 pages A4.

9. TELSAT by G0EVH.
Display of OSCAR-11 ASCII Telemetry. Does not require separate decoder but one may be used if available. Documentation 7 pages A4.

10. Miscellaenous programs by G4BLT, all on one disk.
ALLDUMP - ROM/RAM memory dump utility. CW/QSO - CW transceive program. Needs simple tone decoder,(may be suitable for displaying the morse code telemetry from some satellites). Not for Compact. EPSON - 'fix' for Pound/£ sign clash on Epson-type printers. LOCATE - comprehensive locator and contest scoring program. MASTERM - TNC driver program for the Master 128, or Compact with RS423. MFILE - Multifile card-index database program. MOONLOC - program for predicting the position of the moon in the sky. MORSE - comprehensive morse-tutor program with key practice facility. RISESET - sunrise/sunset predictor for the Master 128 only. RTTY - RTTY transceive program, requires an external TU. Not for Compact. SUNLOC - program for predicting the position of the sun in the sky. Documentation on disk, plus 4 pages A4 (describing hardware interfaces)

11. KANGATERM by G1PJJ.
TNC driver program for the BBC B, B+, Master 128 and Compact. This program now realeased into the public domain. Documentation on disk.

12. UUBEEB by G7GLN
UUencoder and UUdecoder utilities for sending binary files via packet radio. Documentation on disk.

13. BBC Hints and Tips compiled by G4BLT
A two disk set of 207 useful hints, tips and programming information, in the form of text files. These can be read or printed using the *TYPE command, or loaded into a Word Processor such as View, Wordwise or InterWord. Contains much difficult to get information. Strongly recommended to ALL BBC users. Additional documentation one page A4.

14. DOVE TELEMETRY DECODE by G3CWV.
A simple and easy to use program which decodes a file of ASCII DOVE data. Analogue telemetry and STATUS values are displayed. (Note to produce the input file you will need a TNC and a suitable terminal program, eg disks 6 or 11). Documention 2 pages A4.

15. ALLSAT. Satellite tracking by G3CWV.
An easy to use program with many features. Clear mode 7 display. Option to display AOS-TCA-LOS. Displays Mode, Squint for elliptical orbiters. Option to restrict hours and days of tracking on a weekly schedule. Printer supported. Easy update of Keplers via keyboard or from file of NASSA two-liners. Documentation 4 pages A4. This is a much improved version of the program which is distributed with the SBASE disk. Recommended!

16. SATPACK - 1. Satellite tracking by Eric Twose. Graphical and tabular displays. Abridged documentation 3 pages A4.

17. SATPACK - 2 OSCAR-11 ASCII Telemetry decoding by Craig Underwood of UoS. Hardware decoder is optional. Abridged documentation 2 pages A4

18 UOSAT WOD Display by John Fairweather.
These routines were written for OSCAR-9, and were described in OSCAR News September/December 1987. The graphics were much better than produced by other programs. The Author suggests that it may be possible to modify for OSCAR-11. Would require the raw data aquisition programm from disk 17. Worth a try for experienced users. Limited documention, 3 pages A4.

A small donation of say two or three pounds per disk is requested, to cover the cost of documentation, and generate some money for the AMSAT Phase-3 Building Fund. (You may count the hints and tips disks as a single disk).

If you require any of these programs please send the appropiate number of formatted disks, PLUS return postage, PLUS your donation, to the ADDRESS BELOW (not to the AMSAT Office). When estimating the return postage please remember that 12 sheets of documentation weigh about 60 grams. The packing should be re-usable. A 6" X 9" size envelope (A5) with two sheets of card is recommended. This will form a stiff packet, and will enable the documentation to be enclosed without damage. Disks should be formatted for BBC 80 track. I can also do 40 track, but in some cases two disks may be required, and there could be problems in running some programs. Please enquire.

Clive Wallis. G3CWV
"Wychwood", Snailswell Lane, Ickleford, Hitchin. SG5 3TP

AMSAT BBC SOFTWARE

The following BBC programs by JAMES MILLER G3RUH are now available from the AMSAT BBC Program Library -

SATFOOT - SATELLITE FOOTPRINTS

Draws the footprints of up to 10 satellites at once (including Sun and Moon), in real time, superimposed on a precision map of the world. The display may be frozen, or accelerated. A status line shows tracking data at one of ten selectable locations. Compatible with the AMSAT-UK/G4GPQ antenna controller, as described in OSCAR News.

ANTTEST

This is a test program to enable you to set up and test the G4GPQ antenna controller.

PLAN13 - OSCAR-13 PLANNING

This is an elliptical tracking program for OSCAR-13, which includes solar panel illumination, and antenna squint. It is clearly coded, and copiously commented, which allows you to include its routines in your own software, (if required). Uses elliptic orbit calculation, and models drag, and is therefore suitable for all amateur satellites. Printer supported.

WINDOWS

This program calculates the times of mutual visibility of OSCAR-13 between two stations, according to specified values of dates, squint, elevation, and MA acceptable to the user.

AO13TLM MK2 AO-13 TELEMETRY DISPLAY

Full feature OSCAR-13 telemetry display. Operates in real time, or can display data from disk. Four telemetry screens can be displayed ie. status, navigation, power, and temperature. Tracking data can also be displayed.

The programs are now supplied on BBC 80 track disks as a complete set, at the reduced price of £12-50. This includes disks and postage.

LOW COST UPDATE SERVICE

If you have an earlier version of any James Miller program and wish to get the latest program, please return the original distribution disk or tape, PLUS return postage stamps, PLUS a small donation (say two or three pounds per disk) to the address below. I am happy update tape versions to disk, but please note the current versions are not available on tape.

COMPANION DISKS FROM THE BBC LIBRARY

There are two disks in the BBC library which are recommended to users of the James Miller programs. Both disks contain the program SBASE, which is a data base for Keplerian elements.

DISK 15 ALLSAT.

For SATFOOT users SBASE provides a convenient, semi-automatic way of updating the program's Keplerian elements. It also contains ALLSAT which is a useful general purpose tracking program, containing many novel features . It is based on James Miller's tracking routines.

DISK 3 SBASE.

For program writers. By combining the SBASE routines with James Miller's programs you can readily create your own tracking program. The disk contains examples of applications.

These two disks are available for a small extra donation (say two to three pounds per disk), if ordered at the same time as the James Miller programs.

Please note that these programs are only available from the address below. They are NOT available from the AMSAT-UK office. Please make ALL cheques payable to C.Wallis. ALL the proceeds from James Miller's programs and the BBC program library will go the AMSAT Phase-3 Building Fund.

C.WALLIS G3CWV

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