

SECTOR, GROUP CONTROL AND NRC DISPLAY TELLING PROCEDURES

1. Telling Conventions. When internal telling procedures are used the following standard conventions will apply:

a. Message Codes. Message codes are spoken phonetically as follows:

- (1) BB (Bomb Burst) as BRAVO BRAVO
- (2) BX (Continental Bomb Bursts) as BRAVO XRAY
- (3) FF (First Fallout) as FOXTROT FOXTROT
- (4) PP (Post Out) as PAPA PAPA
- (5) QQ (Post In) as QUEBEC QUEBEC
- (6) US (Post FSM Situation Report) as UNIFORM SIERRA
- (7) LL (Later Arrival) as LIMA LIMA
- (8) CC (Dose Rate Situation) as CHARLIE CHARLIE
- (9) RR (Radiation Rate) as ROMEO ROMEO
- (10) TT (Threat Front) as TANGO TANGO
- (11) TX (Continental Threat Front) as TANGO XRAY

b. Group, Sector and Country Names. Group, Sector and Country names are spoken as complete names, eg:

- (1) DUN as DUNDEE
- (2) MET as METROPOLITAN
- (3) FR as FRANCE

c. Ground/Air Burst. Ground or Air Burst is written in MSX messages just as 'G' or 'A' but is spoken in full, ie "GROUND BURST".

d. Post Numbers. Post numbers are spoken as a whole number, ie 26 as "TWENTY SIX".

e. Date. The date, when by itself or in combination with a time, is spoken as single figures, eg 10 as "ONE ZERO".

f. Time. Time is spoken by reference to the 24 hour clock.

g. Burst Designations. Burst Designations are spoken as the Group or Country name complete and the designation phonetically, eg

- (1) DUNB as "DUNDEE BRAVO"
- (2) FR08B as "FRANCE ZERO EIGHT BRAVO"

h. Grid References. Grid references, (National Grid, Georof and UTM) are spoken as single letters and figures, eg

NO1234 as "NOVEMBER OSCAR ONE TWO THREE FOUR"

i. Amendment/Cancellation. Amendments and cancellations are printed in message text as AMD and CAN respectively and are spoken as "AMENDMENT" and "CANCEL" accordingly.

j. Radiation Readings. Radiation readings are spoken as single figures.

k. Colours. When information is to be plotted in a particular colour, that colour is to be spoken in full, eg R as RED or G as GREEN etc.

l. Weapon Powers. Weapon powers are spoken as single figures followed by KILOTONS or MEGATONS as appropriate.

m. Height. Heights are spoken as single figures.

Telling Procedures

2. Displays A, B, T and E

a. Nuclear Bursts. (BB and BX) The Plotter alerting sequence for both BB and BX messages is the same to each of the Displays and is as follows:

- (1) Code
- (2) Group or Sector name
- (3) Ground/Air Burst as appropriate.

b. After the alerting sequence the Plotter will indicate his readiness to plot using the appropriate response from Part F.

c. Text. Once the Plotter has indicated his readiness to continue, tell the text as follows:

(1) Display A & B (BB)

- (a) National Grid
- (b) Burst Designation
- (c) Power of weapon
- (d) Date/Time of burst

PP BBMAI

---:BBMAI:--201040--

:ORG::A::TQ 5543::AG 1210::MAIB::100K::300::201030:

Told as: BRAVO BRAVO - MAIDSTONE - AIR BURST (Plotter says "A or B READY")

TANGO QUEBEC FIVE FIVE FOUR THREE - MAIDSTONE BRAVO - ONE ZERO ZERO KILOTONS - TWO ZERO TEN THIRTY (Plotter says "A or B DONE")

(2) Display A & B (BX)

- (a) "UTM"
- (b) Reference
- (c) Burst Designation
- (d) Weapon Power
- (e) Date/Time

PP BXMET

----:BXMET:--171145--

:ORG: :G: :31UDR250850: :BF5625: :FR80B: :500K: :100: :171130:

Told as BRAVO XRAY METROPOLITAN - GROUND BURST (Plotter says "A or B READY")

- UTM (spoken as "UTM") - THREE ONE UNIFORM DELTA ROMEO TWO FIVE ZERO EIGHT FIVE ZERO - FRANCE EIGHT ZERO BRAVO - FIVE ZERO ZERO KILOTONS - ONE SEVEN ELEVEN THIRTY (Plotter says "A or B DONE")

(3) Display T (BB)

- (a) National Grid
- (b) Burst Designation

PP BBMAI

----:BBMAI:--171040--

:ORG: :A: :TQ5543: :AG1210: :MAIB: :100K: :3000: :171030:

Told as BRAVO BRAVO MAIDSTONE - AIR BURST (Plotter says "T READY") - TANGO QUEBEC FIVE FIVE FOUR THREE - MAIDSTONE BRAVO - (Plotter says "T DONE").

(4) Display E (BX)

- (a) "UTM"
- (b) Reference

(c) Burst Designation

PP BXMET

----:BXMET:--171145--

:ORG: :G: :31UDR250850: :BF5625: :FR80B: :500K: :100: :171130:

Told as BRAVO XRAY METROPOLITAN - GROUND BURST (Plotter says "E Ready") - UTM (spoken as "UTM") - THREE ONE UNIFORM DELTA ROMEO TWO FIVE ZERO EIGHT FIVE ZERO - FRANCE EIGHT ZERO BRAVO - (Plotter says "E DONE").

(d) Nuclear Bursts - (Amendments and Cancellations)

(1) The Plotter alerting sequence for all displays for the Amendments and Cancellations of nuclear bursts is detailed below, and is indicated by "AMD" or "CAN" as the first item in the message text:

- (a) Code
- (b) Group or Sector name
- (c) AMENDMENT or CANCEL
- (d) Burst Designation

(2) The text is told as detailed in 2 c (1) to 2 c (4) once the Plotter has indicated readiness to plot.

BOMB BURST AMENDMENT

PP BBMAI

---:BBMAI:--201100--

:AMD: :G: :TQ 6743: :AG 2210: :MAIB: :500K: :100: :201030:

Told as: BRAVO BRAVO - MAIDSTONE - AMENDMENT - MAIDSTONE BRAVO - (Plotter says "- READY")

GROUND BURST - TANGO QUEBEC SIX SEVEN FOUR THREE - MAIDSTONE BRAVO - FIVE ZERO ZERO KILOTONS - TWO ZERO TEN THIRTY - (Plotter says "- DONE").

BOMB BURST CANCELLATION

PP BBMAI

---:BBMAI:--171040-

:CAN: :G: :TQ5543: :AQ1210: :MAIB: :100K: :300: :171030:

Told as BRAVO BRAVO MAIDSTONE - CANCEL - MAIDSTONE BRAVO - (Plotter says "- READY")

GROUND BURST - TANGO QUEBEC FIVE FIVE FOUR THREE - MAIDSTONE BRAVO - ONE ZERO ZERO KILOTONS - ONE SEVEN TEN THIRTY - (Plotter says "- DONE").

(e) Threat Front (TT) The Plotter alerting sequence for TT messages to Displays B and T is as follows:

- (1) Code
- (2) Burst Designation

(f) After the Plotter has indicated readiness to plot the text of the message is told as follows:

- (1) NGR
- (2) Burst designation.
- (3) Date/time.

PP TTMET

----:TTMET:--051205--

FRONT D/T:051200

:WINA: :TQ 1745 SU 9289

Told as: TANGO TANGO WINCHESTER ALFA (Plotter says "- READY")
TANGO QUEBEC ONE SEVEN FOUR FIVE SIERRA UNIFORM NINE TWO EIGHT NINE - WINCHESTER ALFA - ZERO FIVE TWELVE HUNDRED - (Plotter says "- DONE").

(g) Continental Threat Fronts (TX). The alerting sequence for TX messages to Displays B and T is as follows:

- (1) Code
- (2) Sector name
- (3) Burst Designation

RR CCEXE

-----:CCEXE:--051205--

:051200:

:99: :G00:

:10: :R10: :11: :R12:

:15: :G10: :16: :RFF:

:20: :R8.9: :21: :G00:

:25: :RFF: :26: :G112: :27: :PP_____:

:30: :G00: :31: :G260: :32: :G4.6 :

..... etc until final Post reading

:67: :G3.2:

Told as: CHARLIE CHARLIE EXETER - ZERO FIVE TWELVE HUNDRED (Plotter says "B READY") - NINETY NINE - GREEN ZERO ZERO - TEN - RED ONE ZERO - ELEVEN - RED ONE TWO - FIFTEEN - GREEN ONE ZERO - SIXTEEN - RED FOXTROT FOXTROT - TWENTY - RED EIGHT POINT NINE - TWENTY ONE - GREEN ZERO ZERO - TWENTY FIVE - RED FOXTROT FOXTROT - TWENTY SIX - GREEN ONE ONE TWO - TWENTY SEVEN - PAPA PAPA - THIRTY - UNIFORM SIERRA - THIRTY ONE - GREEN TWO SIX ZERO - THIRTY TWO - GREEN FOUR POINT SIXSIXTY SEVEN - GREEN THREE POINT TWO - CHARLIE CHARLIE - EXETER COMPLETE - (Plotter says "B DONE").

(2) Radiation Rates (RR)

(1) Post Numbers and readings.

(a) Prefix the reading with the word WHITE when the reading is 2.9 and below.

(b) Prefix the reading with the word GREEN when the reading is from 3.0 to 9.9 inclusive.

(c) Prefix the reading with the word RED when the reading is from 10 to 29 inclusive.

(d) Prefix the reading with the word BLUE when the reading is from 30 to 99 inclusive.

(e) Prefix the reading with the word YELLOW when the reading is 100 and above.

(2) ROMEO ROMEO, Group Name, COMPLETE when all data from a message has been told.

RR RRBRI

----:RRBRI:--041410--

CAT H+7 D/T

:ORG: :041400:

:99: :0 :

:10: :0 : :11: :0 :

:15: :2.7 : :16: :4.5 : :17: :0 :18: :12 :

:20: :40 : :21: :50 : :22: :110: :23: :3.0 :

..... etc until the final Post reading

:67: :0 :

Told as: ROMEO ROMEO BRISTOL - ZERO FOUR FOURTEEN HUNDRED (Plotter says "Ready") - NINETY NINE - WHITE ZERO - TEN - WHITE ZERO - ELEVEN - WHITE ZERO - FIFTEEN - WHITE TWO POINT SEVEN - SIXTEEN - GREEN FOUR POINT FIVE - SEVENTEEN - WHITE ZERO - EIGHTEEN - RED ONE TWO - TWENTY - BLUE FOUR ZERO - TWENTY ONE - BLUE FIVE ZERO - TWENTY TWO - YELLOW ONE ONE ZERO - TWENTY THREE - GREEN THREE POINT ZEROetc until the final Post reading

- ROMEO ROMEO BRISTOL COMPLETE.

(k) Radiation Rate (Amendments). The Plotter alerting sequence for a Radiation Rate Amendment is as follows:

- (1) Code
- (2) Group name
- (3) "AMENDMENT"

(1) After the Plotter has indicated readiness to plot tell the text as at sub para j (2).

RR RRBRI

----:RRBRI:--041705--

CAT H+7 D/T

:AMD: :041400:

:16: :5.5 : :27: :18 :

Told as: ROMEO ROMEO BRISTOL AMENDMENT (Plotter says "B READY") - SIXTEEN - GREEN FIVE POINT FIVE - TWENTY SEVEN - RED ONE EIGHT - ROMEO ROMEO BRISTOL AMENDMENT - COMPLETE - (Plotter says "B DONE").

(m) Other Message Codes. The Plotter alerting sequence for all other messages told to Displays A, B, T and E are similar as follows:

- (1) Code
- (2) Group name

(n) After the Plotter has indicated readiness to plot tell the text as indicated in the examples below.

(1) First Fallout

PP FFMAI

---:FFMAI:--201041

:27: :1036: :40: :1037: :41: :1036:

Told as FOXTROT FOXTROT - MAIDSTONE (Plotter says "A READY") - TWENTY SEVEN - TEN THIRTY SIX (PAUSE) FORTY - TEN THIRTY SEVEN (PAUSE) FORTY ONE - TEN THIRTY SIX - (Plotter says - "A DONE").

(2) Later Arrivals, (Allocation of Bombs to First Fallouts)

RR LLMAI

---:LLMAI:--201015--

:ORG: :1: :27: :1036: :HORA :
:ORG: :1: :40: :1037: :HORA :
:ORG: :1: :41: :1036: :BEDB :

Told as LIMA LIMA MAIDSTONE (Plotter says "A READY") - ONE - TWENTY SEVEN - TEN THIRTY SIX - HORSHAM ALFA (PAUSE) ONE - FORTY - TEN THIRTY SEVEN - HORSHAM ALFA (PAUSE) ONE - FORTY ONE - TEN THIRTY SIX - BEDFORD BRAVO - (Plotter says "A DONE").

(3) Post Situation (OUT)

RR PPCAR

---:PPCAR:--201001:-

:22: :31: :50:

Told as PAPA PAPA CARLISLE (Plotter says "A READY") - TWENTY TWO - THIRTY ONE - FIFTY - (Plotter says "A DONE").

(4) Post Situation (IN)

RR QQSWA

---:QQSWA:--201001:-

:10: :11: :12:

Told as QUEBEC QUEBEC SOUTH WALES (Plotter says "A READY") - TEN - ELEVEN - TWELVE - (Plotter says "A DONE").

(5) Post Situations (FSM OUT)

RR USAYR

---:USAYR:--201032

:45: :US: :201030:

Told as UNIFORM SIERRA AYR (Plotter SAYS "A READY") - FORTY FIVE - US - TWO ZERO TEN THIRTY - (Plotter says "A DONE").

(6) Post Situations (FSM IN)

RR USAYR

---:USAYR:--201053:-

:45: :OK: :201050

Told as UNIFORM SIERRA AYR (Plotter says "A READY") - FORTY FIVE - OK - TWO ZERO TEN FIFTY - (Plotter says "A DONE").

(7) Later Arrivals

RR LLBED

---:LLBED:--201032--

:ORG:	:2:	:10:	:1030:	:NORA	:
:ORG:	:2:	:15:	:TOTO:	:NORA	:
:ORG:	:3:	:56:	:T020:	:COLB	:

Told as LIMA LIMA BEDFORD (Plotter says "A READY") - TWO - TEN - TEN THIRTY - NORWICH ALFA (PAUSE) TWO - FIFTEEN - TEN TEN - NORWICH ALFA (PAUSE) THREE - FIFTY SIX - TEN TWENTY COLCHESTER BRAVO - (Plotter says "A DONE")

o. Amendments to Later Arrivals and First Fallouts. The plotter alerting sequence for amendments has the word AMENDMENT added after the Group name.

PP LLBED

---:LLBED:--201040--

:AMD: :3: :56: :1030: :COLB :

Told as LIMA LIMA BEDFORD - AMENDMENT - (Plotter says "A READY") - THREE - FIFTY SIX - TEN THIRTY - COLCHESTER BRAVO - (Plotter says "A DONE")

p. Injection from the Group Information Centre. (Sectors only). At Sectors the BPI Plotter and the Group Information Orderly can inject Home Group information directly from the Group Information Centre interrupting messages being told by the Display A Teller.

1. Bomb Burst - BPI Plotter

Display A Teller - "PAPA PAPA MAIDSTONE"

Display A Plotter - "READY"

Display A Teller - "TWENTY TWO, TWENTY"

BPI Plotter (interrupting) "BRAVO BRAVO HORSHAM GROUND BURST"

Display A Plotter - "READY"

BPI Plotter - TANGO QUEBEC ONE FIVE FOUR FIVE

HORSHAM ALFA

THREE MEGATONS

TWO ZERO TEN TWENTY ONE"

Display A Plotter - "A DONE"

BPI Plotter - "MESSAGE ENDS"

Display A Teller - "PAPA PAPA MAIDSTONE"

Display A Plotter - "READY"

Display A Teller - "TWENTY TWO" ETC.

2. First Fallout - Group Information Orderly

Display A Teller - "...BEDFORD CHARLIE, THREE MEGATON".
 Group Information Orderly - "FOXTROT FOXTROT HORSHAM".
 (interrupting)
 Display A Plotter - "READY"
 Group Information Orderly - "TWENTY ONE POST, TEN OH FIVE".
 Display A Plotter - "A DONE".
 Group Information Orderly - "MESSAGE ENDS".
 Display A Teller - "BRAVO BRAVO BEDFORD, GROUND BURST".
 Display A Plotter - "READY".
 Etc.

3. Amendments to Bomb Bursts. Amendments to Bomb Bursts are injected by the BPI Plotter as follows:

Display 'A' Teller - MAIDSTONE PAPA PAPA
 Display 'A' Plotter - READY
 Display 'A' Teller - FIFTEEN, SIXTEEN....
 BPI Plotter (interrupting) - BRAVO BRAVO HORSHAM
 AMENDMENT
 HORSHAM ALPHA
 Display 'A' Plotter - READY
 BPI Plotter - AIR BURST
 TANGO QUEBEC ONE TWO
 FIVE THREE
 HORSHAM ALFA
 - ONE MEGATON
 ONE ZERO TWENTY TWO OH ONE
 Display 'A' Plotter - A DONE
 BPI Plotter - MESSAGE ENDS

4. Nuclear Burst Tote

a. Nuclear Bursts (BB). Nuclear Burst messages are told as follows:

- (1) GROUND or AIR BURST
- (2) Burst Designation
(Plotter to say 'TOTE READY' or 'WAIT' as appropriate.)
- (3) NGR
- (4) GEOREF
- (5) Burst Designation
- (6) Power of weapon
- (7) Height
- (8) Date/time of burst
(Plotter acknowledges receipt by saying 'TOTE DONE'.)

PP BBBRI

---:BBBRI:--011525

:ORG: :G: :ST1234: :MG5658: :BRIA: :100K: :100: :011520:

Told as: GROUND BURST - BRISTOL ALFA (Plotter says "TOTE READY") -
SIERRA TANGO ONE TWO THREE FOUR - MIKE GOLF FIVE SIX FIVE EIGHT -
BRISTOL ALFA - ONE ZERO ZERO KILOTONS - ONE ZERO ZERO - ZERO ONE
FIFTEEN TWENTY - (Plotter says "TOTE DONE").

b. Continental Nuclear Bursts (BX). Continental Nuclear Bursts are told as follows:

- (1) Code
- (2) Sector name
- (3) GROUND or AIR BURST
(Plotter replies 'TOTE READY' or 'WAIT' as appropriate.)
- (4) The word UTM
- (5) Reference
- (6) GEOREF

- (7) Burst Designation
- (8) Power of weapon
- (9) Height
- (10) Date/time of burst

(Plotter acknowledges receipt by saying 'TOTE DONE'.)

PP BXMET

----:BXMET:--171145--

:ORG: :G: :31UDR25085: :BF5625: :FR80B: :500K: :100: :171130:

 Told as BRAVO XRAY METROPOLITAN - GROUND BURST (Plotter says "TOTE READY") - UTM (spoken as "UTM") - THREE ONE UNIFORM DELTA ROMEO TWO FIVE ZERO EIGHT FIVE ZERO - BRAVO FOXTROT FIVE SIX TWO FIVE - FRANCE EIGHT ZERO BRAVO - FIVE ZERO ZERO KILOTONS - ONE ZERO ZERO - ONE SEVEN ELEVEN THIRTY - (Plotter says "TOTE DONE").

c. Amendments and Cancellations. Amendments and Cancellations to the Nuclear Burst tote, the words AMENDMENT or CANCEL being used as appropriate. The sequence is as follows:

- (1) The word AMENDMENT
- (2) Burst Designation
(Plotter to reply 'TOTE READY' or 'WAIT' as appropriate.)
- (3) GROUND or AIR BURST
- (4) Continue as per sub para a (3) to (8) or b (4) to (10) as appropriate.
(Plotter to acknowledge by saying 'TOTE DONE'.)

(a) Amendment

PP BBBRI

---:BBBRI:--011535--

:AMD: :A: :ST1234: :MG5658: :BRIA: :150K: :1000: :011520:

 Told as: AMENDMENT BRISTOL ALFA (Plotter says "TOTE READY") - AIR BURST - SIERRA TANGO ONE TWO THREE FOUR - MIKE GOLF FIVE SIX FIVE EIGHT - BRISTOL ALFA - ONE FIVE ZERO KILOTONS - ONE ZERO ZERO ZERO - ZERO ONE FIFTEEN TWENTY - (Plotter says "TOTE DONE").

b. Cancellation

PP BBBRI

----:BBBRI:--011545--

:CAN: :A: :ST1234: :MG5658: :BRIA: :150K: :1000: :011520:

To1d as: CANCEL BRISTOL ALFA (Plotter says "TOTE READY") - AIR BURST -
SIERRA TANGO ONE TWO THREE FOUR - MIKE GOLF FIVE SIX FIVE EIGHT -
BRISTOL ALFA - ONE FIVE ZERO KILOTONS - ONE ZERO ZERO ZERO - ZERO ONE
FIFTEEN TWENTY - (Plotter says "TOTE DONE").

SECTOR, GROUP CONTROL & NRC DISPLAY PLOTTING PROCEDURES

1. This Annex details the procedures for plotting Nuclear Burst (BB & BX), First Fallout (FF), Later Arrival (LL), Post In (QQ), Post Out (PP), Post FSM U/S (US), Threat Fronts (TT & TX), Dose Rate Situations (CC) and Radiation Rates (RR) on Displays A, B, T, E and Nuclear Burst Tote at Sectors, Group Controls and NRC's.

2. All information is plotted using yellow omnichrom unless otherwise stated.

PLOTTING PROCEDURES

3. Nuclear Bursts - (BB & BX).

a. Displays A & B (Rear)

(1) Select a Ground Burst (Large Red) or Air Burst (Large Green) on Display A or Small Green on Display B (Rear) symbol and place it on the screen with the tip of the symbol at the NGR or UTM position told by the Teller.

(2) Tabulate burst designation, power and date/time of burst in that order on the left hand side of the symbol, as viewed from the rear of the Display (or elsewhere if necessary to avoid obliterating information already displayed). Kilotons are to be denoted with 'K' and megatons with 'M' (see Fig T4.1).



Fig T4.1

b. Display T.

(1) Place a small red (Ground Burst) or small green (Air Burst) symbol with the tip of the symbol indicating the National Grid, writing the Burst Designation in Black omnichrom under the tip of the symbol. (See Fig. T4.2)

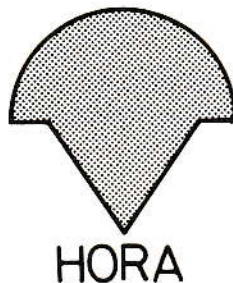
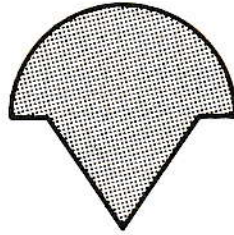


Fig T4.2

c. Display E

(1) Place a small red (Ground Burst) or small green (Air Burst) symbol with the tip of the symbol indicating the UTM position, writing the Burst Designation in Blue omnichrom under the tip of the symbol. (See Fig T4.3).



FR80B

Fig T4.3

d. Nuclear Burst Tote

(1) At Sector Controls, select a large red NB symbol (Ground Burst) or large green NB symbol (Air Burst) as appropriate. At Group Controls, small symbols are to be used.

(2) Place the burst symbol on the NB Tote column marked AB or GB in the line appropriate to the burst designation for United Kingdom bursts, or in the next available line of Continental bursts.

(3) Using Black omnichrom enter the information told under the appropriate headings on the Tote.

4. Bomb Burst Amendments. Identified by the Teller using the procedure in Annex T3:

a. Compare the message told with the information plotted.

b. When the burst information displayed requires amendment compare the information told with the information displayed and substitute the amended information (See Fig T4.4).

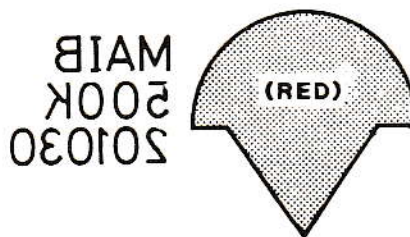


Fig T4.4 (Amendment to Burst Details shown in Fig T4.1)

5. Bomb Burst Cancellations. Identified by the Teller using the procedure in Annex T3. Check the told information with that already plotted and remove the information from the Display.

6. On the Nuclear Burst Tote enter the word "CANCELLED" after removing the plotted information.

7. First Fallout (FF) - Display A

Write the time of First Fallout (four figures) under the Post position (See Fig 4.5).

• 75
1030

Fig T4.5

8. Later Arrivals (LL) - Display A (including the allocation of First Fallouts to Bombs).

a. Select the correct coloured omnichrom pencil according to the arrival told as follows:

- (1) "ONE" - Yellow
- (2) "TWO" - Green
- (3) "THREE" - Red
- (4) "FOUR" - White

b. If further arrivals are reported the sequence of colours is repeated eg "red" is used for all third, seventh, eleventh arrivals etc.

c. When a LIMA LIMA (Group Name) followed by "ONE" is told write the burst designation after the FIRST FALLOUT time already plotted for the relevant post.

d. When a LIMA LIMA (Group Name) followed by "TWO", "THREE", etc is told, write the time and burst designation in the appropriate colour with the time immediately below the FIRST FALLOUT or previous arrival time already plotted for the relevant post.

52.
1030HORA ← (YELLOW)
1130MAMB ← (GREEN)
1250FR80B ← (RED)

Fig T4.6

e. The Chief Warning Officer may, in certain circumstances, arrange the removal of First Fallouts and Later Arrivals and the transfer of Plumes to the back of the screen. When this is done the Display A Plotter is to continue the plotting of new arrivals under Posts with regard to the telling of "TWO", "THREE", etc as before using the correct colour see Para b.

9. Later Arrivals and First Fallout Amendments. Amendments identified by the Teller using the procedure in Annex T3. Compare and if necessary delete information previously plotted and substitute the amended data.

NOTE: A Later Arrival Amendment will also be the means of amending a First Fallout.

10. Later Arrivals and First Fallout Cancellations. Cancellations identified by the Teller using the procedure in Annex T3. Compare and if necessary delete the information previously plotted.

11. Post Situations (PP, QQ and US) - Display A

- a. Plot Posts 'OUT' (PAPA PAPA) with a small yellow 'X' on the Post Position.
- b. Action Posts 'IN' (QUEBEC QUEBEC) by removing the yellow 'X' from the Post Position.
- c. Action Post US (UNIFORM SIERRA) by plotting below the Post number (or below any previously plotted First Fallouts or Later Arrivals) in BLUE omnichrome US followed by the Date/Time (see Fig T4.7) if the Plotter says "US" followed by a date/time.

42.
0301 012U

or by removing a "US" entry below a Post if the Plotter says "OK" followed by a date/time

12. Fallout Threat (TT) - Display B (Rear) and Display T.

- a. Locate on the display the first National Grid Reference (NGR) told in the message.
- b. Using yellow omnichrom, (or a different colour if Plumes are close together) draw a short horizontal dash on the NGR position.
- c. Repeat this for each NGR told for the front in the TT message.
- d. If the TT message ends with an NGR over sea, extend the front to the coast and continue to the NGR as a dotted line.
- e. If the front is the first to be plotted for a United Kingdom Burst, draw lines connecting the ends of the front to the Ground Zero of the appropriate Burst quoted in the message to form a Plume.
- f. If the front is the second or a later one plotted for a Burst, draw lines connecting the ends of the previous front, to continue the Plume.

h. For TT messages write the Burst Designation and the time inside the Plume; along the line of the front, starting at one end. The starting point will depend upon the direction of the Plume.

A number of examples are shown below (Fig T.7 for Display B (Rear) and Fig T4.8 for Display T).



Fig T4.7

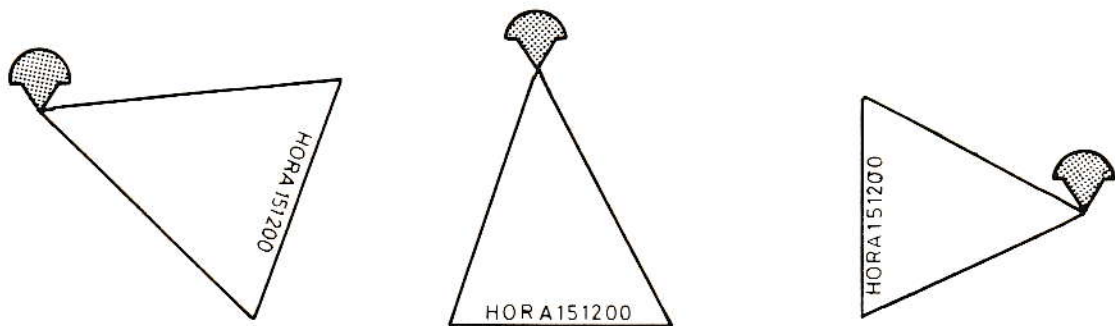


Fig T4.8

NOTE: At Sectors and Groups where Plumes are close but separate, different plotting colours should be used to clarify the display.

13. Continental Fallout Threat (TX) - Display B (Rear) and Display T.

a. TX messages are issued as a result of information received from other countries. Due to the distances involved a Threat Front will arrive at different points on the UK mainland at different times although from the same bomb. To overcome this problem a modified presentation of TX messages is required.

b. Locate on the Display the Group and NGR told in the message.

- c. Print beneath the NGR in yellow the following: "ETA - BOMB DESIGNATION - TIME OF ARRIVAL" and underline the message in yellow.

• 14 •
ETA FR80B 021030

Display B (Rear)

14 •
ETA FR80B 051030

Display T

Fig T4.9

- d. Repeat the above procedure for each NGR in a message allocated to a given burst.
- e. Draw a line in yellow (or a different colour if a number of Plumes are close together) from the two outside points/Posts back to the bomb if plotted on the display or by comparison with Display "E" to the general direction of the source of the Plume. In the latter case, indicate within the lines the Bomb Designation and the direction of movement. (See figures T4.10 and T4.11 for Display B (Rear) and Figures T4.12 and T4.13 for Display T).
14. Dose-Rate Situations (CC) - Display B (Front).
- a. For the first message told in a two hour period write boldly in RED at the top left of the display the letters CC and the date/time of the readings as told by the Teller. Check that the times told for other Groups' CC during that period agree with the time displayed.
- b. Select the correct Group and Post and write neatly in 1/2" letters under the Post, using the colour chinagraph told, the reading.
- c. FOXTROT FOXTROT is to be plotted as FF in RED
- d. PAPA PAPA and UNIFORM SIERRA are to be plotted by crossing through the Post number with a RED X.
- e. When all actions at a. - d. have been completed, the Teller will say "CHARLIE CHARLIE, the Group name, COMPLETE", to which the Plotter replies "Group name - DONE".
- f. Remove all readings and times on instructions from the Display Supervisor.
- g. When all CC for the period have been plotted notify the Display Supervisor and await his instructions.

15. Radiation Rate (RR) - Display B (Front)

a. Write boldly in RED at the top left of the display the Group identity, the letters RR and the date/time told (H+7 time), for the first RR told for a Group. Check that the times told for subsequent or amended RR from any subsequent Group agree with the time displayed. Any different H+7 times are to be notified to the Display B Officer.

NOTE: Each Sector determines a common H+7 time for its Groups. It follows therefore that all RR from Groups within the same Sector will carry the same H+7 and that the time may vary, Sector to Sector.

b. Select the correct Group and Post and write the reading neatly in 1/2" letters under the Post using the colour chinagraph told.

c. When the Teller indicates that all the data has been told by saying "ROMEO ROMEO, Group name, COMPLETE" acknowledge receipt by saying "Group name - DONE".

16. Revised Radiation Rates are identified by the Teller saying the procedure in Annex T3. Cancel the previous data by drawing a line through it in the colour for the new reading and enter the reading below.

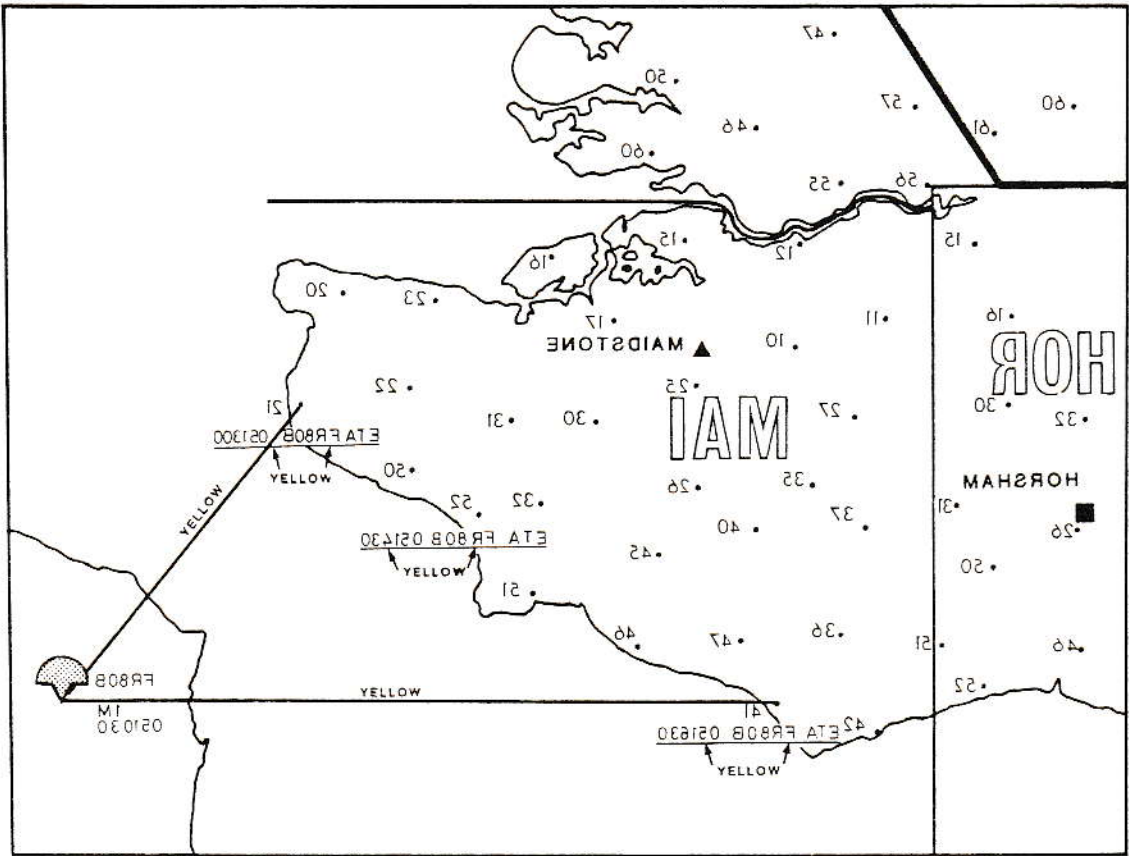


Fig T4.10

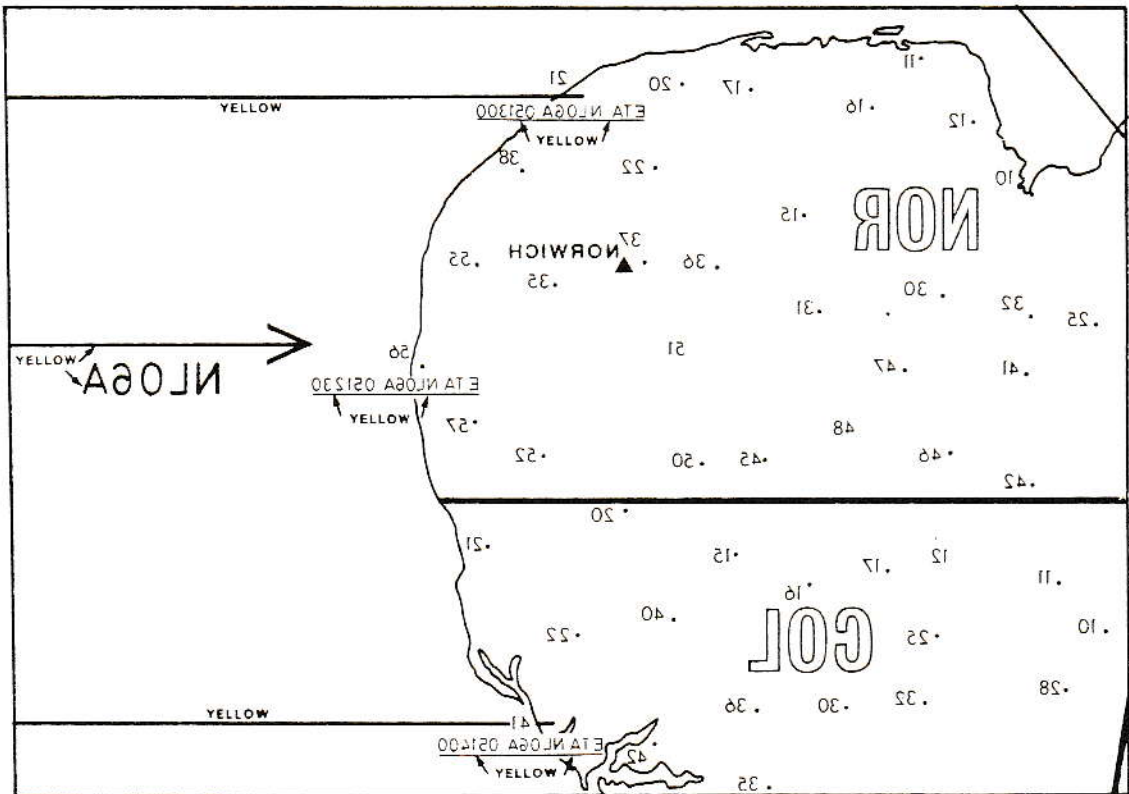


Fig T4.11

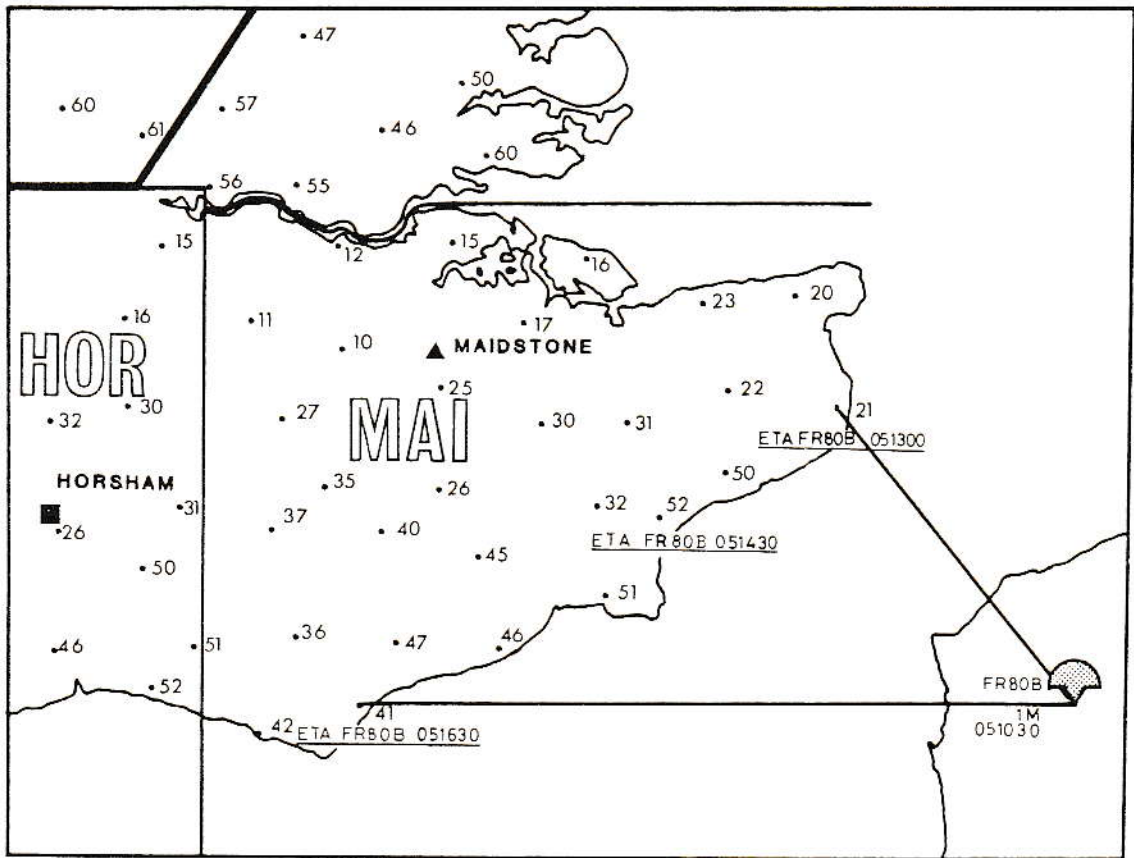


Fig T4.12

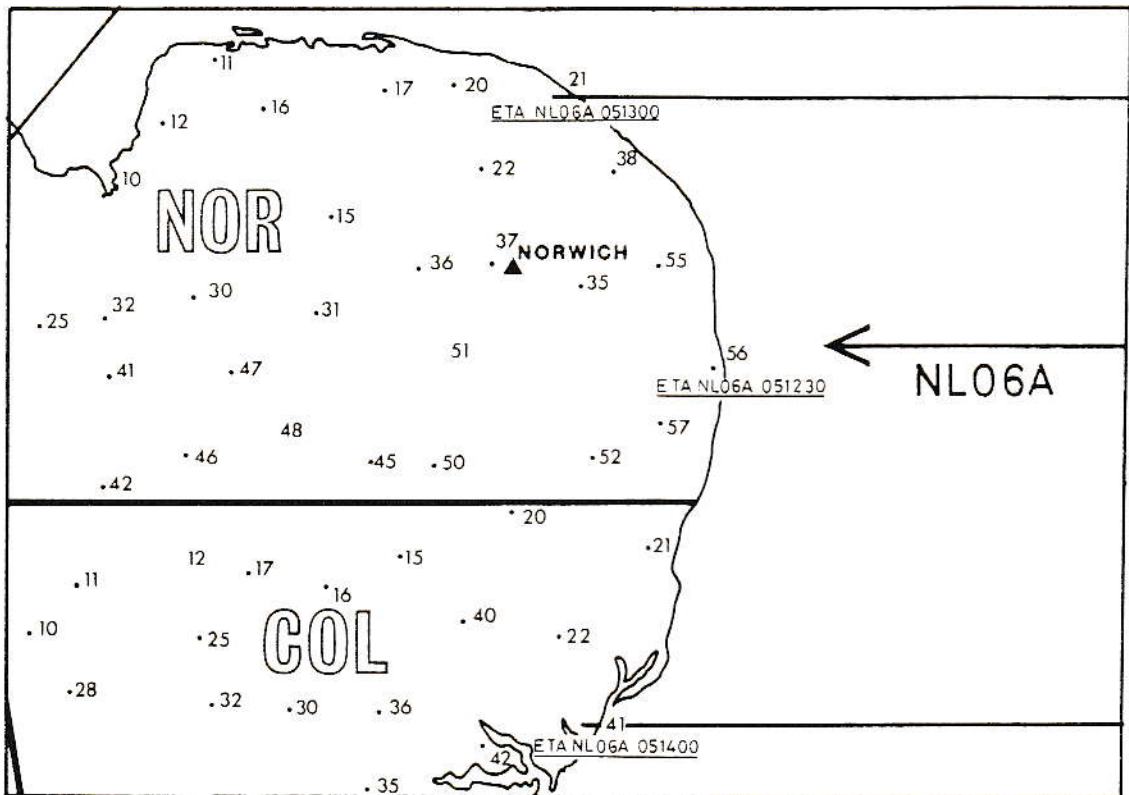


Fig T4.13