FINAL ACTS

of the CEPT T-DAB Planning Meeting (3)

Maastricht, 2002

Annex

FINAL ACTS

of the

CEPT T-DAB Planning Meeting (3)

Maastricht, 2002

for the revision of the Special Arrangement of the European Conference of Postal and Telecommunications Administrations (CEPT) relating to the use of the bands 47 – 68 MHz, 87.5 – 108 MHz, 174 – 230 MHz, 230 – 240 MHz and 1452 – 1492 MHz for the introduction of Terrestrial Digital Audio Broadcasting (T-DAB), Wiesbaden, 1995, as revised by the CEPT T-DAB planning meeting (2), Bonn, 1996

PREAMBLE

The Delegates of the following CEPT Administrations of Member States of the International Telecommunication Union (ITU):

Republic of Austria, Kingdom of Belgium, Republic of Bulgaria, Republic of Croatia, Republic of Cyprus, Czech Republic, Kingdom of Denmark, Republic of Estonia, Republic of Finland, French Republic, Federal Republic of Germany, Hellenic Republic, Republic of Hungary, Ireland, Italian Republic, Republic of Latvia, Principality of Liechtenstein, Republic of Lithuania, Grand Duchy of Luxembourg, Republic of Moldova, Kingdom of the Netherlands, Kingdom of Norway, Republic of Poland, Portuguese Republic, Romania, Slovak Republic, Republic of Slovenia, Kingdom of Spain, Kingdom of Sweden, Swiss Confederation, Republic of Turkey, Ukraine, United Kingdom of Great Britain and Northern Ireland, Vatican City State,

meeting in Maastricht, June 2002, for a T-DAB Planning Meeting convened in accordance with Article 11 of the Special Arrangement concluded at the T-DAB Planning Meeting, Wiesbaden, 1995, as revised by the CEPT T-DAB planning meeting (2), Bonn, 1996, under the terms of Article 6 of the ITU Radio Regulations, and following a decision by the Electronic Communications Committee of the CEPT to convene the present Planning Meeting,

have, in signing these Final Acts at this meeting or in application of the provisions of Article 2.2, agreed as follows:

Article 1

The text of the Special Arrangement concluded at the T-DAB Planning Meeting, Wiesbaden, 1995, as revised by the CEPT T-DAB planning meeting (2), Bonn, 1996, shall be replaced by the text annexed to these Final Acts, referred to as the Wiesbaden,1995, Special Arrangement, as revised in Maastricht, 2002.

Article 2

2.1. The Special Arrangement as given in the Annex shall enter into force on 1 September 2002 at 0001 hours UTC and shall be binding only between contracting administrations of the Special Arrangement, Wiesbaden, 1995, as revised, Bonn, 1996, that have signed these Final Acts or have acceded to this Special Arrangement, after its entry into force, in accordance with its Article 7.

2.2. Any Contracting Administration of the Special Arrangement Wiesbaden, 1995, as revised, Bonn, 1996, that has been unable to sign the Final Acts during the present Planning Meeting or has only signed subject to confirmation, may sign or confirm its signature by correspondence not later than 31 August 2002 at 2400 hours UTC. The signature shall be made without reservations, except that it may be subject to ratification. The Radiocommunications Agency of the Kingdom of the Netherlands will notify all contracting administrations not having attended the present Planning Meeting of this possibility. Any contracting administration wishing to make use of this procedure shall accordingly notify the Federal Ministry of Economics and Technology of the Federal Republic of Germany, which will immediately take the necessary measures for signature by correspondence.

2.3. Contracting administrations of the Special Arrangement Wiesbaden, 1995, as revised Bonn, 1996, not having signed these Final Acts by 31 August 2002 at 2400 hours UTC, may accede to the Special Arrangement Wiesbaden, 1995, as revised Bonn, 1996, and Maastricht, 2002, in accordance with the provisions of its Article 7.

Article 3

In accordance with No. 6.5 of the Radio Regulations, the Chairman of the ECC, through his administration, shall notify the Secretary-General of the ITU of the conclusion and content of the revision of the Special Arrangement including the names of the administrations that have signed these Final Acts containing the annexed Arrangement or that have acceded to the Wiesbaden 1995 Special Arrangement revised in Maastricht, 2002.

IN WITNESS WHEREOF the undersigned representatives of CEPT Administrations, having been duly authorised thereto, have signed the originals in each of the English, French and German languages of these Final Acts, which shall be deposited in the archives of the Federal Ministry of Economics and Technology of the Federal Republic of Germany, which shall forward a copy to each contracting administration.

Done at Maastricht, 18 June 2002

ANNEX

Special Arrangement
of the European Conference of Postal and Telecommunications Administrations (CEPT)
relating to the use of the bands
47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and 230 - 240 MHz
for Terrestrial Digital Audio Broadcasting (T-DAB)

Maastricht, 2002

The Wiesbaden, 1995, Special Arrangement, as revised in Maastricht 2002

THE CEPT T-DAB PLANNING MEETINGS,

WIESBADEN, 1995, BONN, 1996 and MAASTRICHT, 2002

Special Arrangement
of the European Conference of Postal and Telecommunications Administrations (CEPT)
relating to the use of the bands 47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and
230 - 240 MHz for Terrestrial Digital Audio Broadcasting (T-DAB)

PREAMBLE

The Delegates of the following CEPT Administrations of Member States of the International Telecommunication Union (ITU):

Republic of Austria, Kingdom of Belgium, Republic of Bulgaria, Republic of Croatia, Republic of Cyprus, Czech Republic, Kingdom of Denmark, Republic of Estonia, Republic of Finland, French Republic, Federal Republic of Germany, Hellenic Republic, Republic of Hungary, Ireland, Italian Republic, Republic of Latvia, Principality of Liechtenstein, Republic of Lithuania, Grand Duchy of Luxembourg, Republic of Moldova, Kingdom of the Netherlands, Kingdom of Norway, Republic of Poland, Portuguese Republic, Romania, Slovak Republic, Republic of Slovenia, Kingdom of Spain, Kingdom of Sweden, Swiss Confederation, Republic of Turkey, Ukraine, United Kingdom of Great Britain and Northern Ireland, Vatican City State,

have adopted the following provisions concerning the broadcasting service (T-DAB) in the bands 47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and 230 - 240 MHz in the Planning Area as defined in Article 1 of this Special Arrangement, and the Allotment Plan for the introduction of T-DAB.

ARTICLE 1

Definitions

For the purposes of this Special Arrangement, the following terms shall have the meanings defined below:

1.1 ***ITU:*** The International Telecommunication Union.

1.2 ***Radiocommunication Bureau:*** The ITU Radiocommunication Bureau.

1.3 ***Radio Regulations:*** The Radio Regulations (edition of 2001).

1.4 ***CEPT:*** The European Conference of Postal and Telecommunications Administrations.

1.5 ***ECC:*** The Electronic Communications Committee of the CEPT. (Until 2001 the predecessor was the European Radiocommunications Committee)

1.6 ***ERO:*** The European Radiocommunications Office.

1.7 ***Special Arrangement:*** This Special Arrangement and its Annexes.

1.8 ***Contracting Administration:*** Any administration of a Member State of the ITU, which has approved or acceded to this Special Arrangement.

1.9 ***Administration:*** Unless otherwise indicated, the term *administration* designates an administration as defined in the ITU Constitution.

1.10 ***Plan:*** The Plan forming Annex 1 to this Special Arrangement plus all later modifications agreed since the entering into force of the Wiesbaden,1995, Special Arrangement.

1.11 ***Planning Area:*** The territories of the Contracting Administrations.

1.12 ***Allotment:*** Entry in the Plan, or in Annex 5 which is not part of the Plan, of a frequency block designated for use by an administration for T-DAB in an Allotment Area under the conditions specified in the relevant annexes. Each allotment may be used for one or more assignments using the technical criteria specified in Annex 4.

1.13 ***Allotment Area:*** The coverage area of an allotment, the boundaries of which are defined by geographical co-ordinates associated with this allotment.

1.14 ***Assignment:*** Any assignment for which the procedure of Article 6 has been successfully applied.

1.15 ***T-DAB Assignment List:*** The list of T-DAB assignments co-ordinated and notified in accordance with this Special Arrangement.

1.16 ***Plan Management Body:*** The ERO, tasked by the ECC to manage the procedures of this

Special Arrangement.

1.17 ***The Stockholm Agreement (1961):*** The "Regional Agreement for the European Broadcasting Area Concerning the Use of Frequencies by the Broadcasting Service in the VHF and UHF Bands" adopted by the European VHF/UHF Broadcasting Conference (Stockholm, 1961).

1.18 ***The Geneva Agreement (1984):*** The "Regional Agreement Relating to the Use of the Band 87.5 - 108 MHz for FM Sound Broadcasting (Region 1 and Part of Region 3)" adopted by the Regional Administrative Conference for the Planning of VHF Sound Broadcasting (Region 1 and Part of Region 3) (Geneva, 1984).

ARTICLE 2

Execution of the Special Arrangement

2.1 The Contracting Administrations shall apply, for their T-DAB stations in the bands 47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and 230 - 240 MHz, the technical bases specified in Annex 2 to this Special Arrangement.

2.2 The Contracting Administrations shall not modify their allotments, except under the conditions provided for in Article 4 of this Special Arrangement.

2.3 The Contracting Administrations may bring into use assignments in the bands 47 - 68 MHz, 174 - 230 MHz and 230 - 240 MHz in accordance with their allotments in the Plan and only under the conditions set out in Article 6 of this Special Arrangement.

2.4 The Contracting Administrations may, in common agreement with other administrations whose services may be affected, apply the relevant procedures of this Special Arrangement to obtain T-DAB allotments and bring into use T-DAB assignments in the band 87.5 - 108 MHz. However, such allotments do not form part of the Plan and shall be recorded in Annex 5. Corresponding assignments shall be recorded in the T-DAB Assignment List as not being part of the Plan.

2.5 The Contracting Administrations undertake to study and in common agreement to put into practice the measures necessary to eliminate any problems that might result from the application of this Special Arrangement.

ARTICLE 3

Annexes to the Special Arrangement

The Special Arrangement contains the following Annexes:

3.1 ***Annex 1:*** The T-DAB Frequency Block Allotment Plan

The Frequency Allotment Plan for T-DAB stations of Contracting Administrations in the bands 47 - 68 MHz, 174 - 230 MHz and 230 - 240 MHz containing frequency allotments and associated characteristics of T-DAB stations co-ordinated either during the CEPT T-DAB Planning Meeting or by the application of provisions contained in the Special Arrangement.

3.2 ***Other Annexes***

Annex 2: Technical Bases for T-DAB Planning

Annex 3A: Basic characteristics of a T-DAB allotment to be communicated for a modification to the Allotment Plan

Annex 3B: Basic characteristics of a T-DAB assignment to be communicated for the conversion of a T-DAB allotment into one or more assignments

Annex 4: Technical procedures for co-ordination

Annex 5: T-DAB frequency block allotments in the band 87.5 - 108 MHz agreed between the administrations concerned, but not forming part of the Plan

ARTICLE 4

Procedure concerning modifications to the Plan

4.1 The Allotment Plan for T-DAB established by the CEPT T-DAB Planning Meeting, Wiesbaden, 1995, shall be open to modification in accordance with the procedure of this Article. For that purpose the Plan Management Body, on behalf of the ECC, shall maintain the master copy of the Plan containing all modifications made to the Plan.

4.2 If an administration wishes to modify the Plan, it shall apply the procedure below.

4.3 A proposed modification to the Plan may consist of:

4.3.1 a change in the characteristics of an allotment in the Plan;

4.3.2 the inclusion of a new allotment in the Plan;

4.3.3 the suppression of an allotment in the Plan.

4.4 For the purpose of effecting a modification to the Plan, the administration concerned shall:

4.4.1 identify the affected administrations, having regard to the relevant provisions associated with the Plan;

4.4.2 send a request for agreement to the administrations concerned giving the information listed in Annex 3A;

4.4.3 copy this request to the Plan Management Body, taking into account the provisions in 4.6.

4.4.4 The actions according to 4.4.1, 4.4.2 and 4.4.3 above shall be taken not earlier than four years, but not later than 20 weeks before the date at which the proposed modification is intended to be converted into an assignment.

4.5 The agreement mentioned in 4.4 is not necessary if the proposed modification is:

4.5.1 the suppression of an allotment in the Plan;

4.5.2 any modification which results in a reduction of the Allotment Area.

4.6 The administration proposing a modification to the Plan shall send the information listed in Annex 3A to the Plan Management Body and shall indicate, as the case may be:

4.6.1 the names of administrations which have been consulted according to 4.4;

4.6.2 that it is not necessary to obtain the agreement of any administration according to 4.5.

4.7 The Plan Management Body, upon receiving a copy of the request under 4.4, shall publish the complete information.

4.8 Following receipt of the publication, an administration, believing that it should have been included in the request for agreement, shall inform the requesting administration within six weeks of the date of publication, giving its reasons for doing so, and shall also inform the Plan Management Body, requesting that its name be included.

4.9 The administration seeking agreement and those administrations with which agreement is sought, may request any additional information they consider necessary.

4.10 Replies to a co-ordination request (4.4) shall be given within a period of twelve weeks of the date of publication or direct request.

4.10.1 If no reply has been received within this period, an urgent reminder shall be sent.

4.10.2 If, two weeks after dispatch of the reminder, no reply has been received, the administration with which co-ordination has been sought shall be considered to have agreed to the proposed change. Justification shall be given for rejecting a request.

4.11 When the Plan Management Body has been notified by the administration seeking

co-ordination about the results of a co-ordination and finds that this procedure has been successfully concluded, either by obtaining the agreement of the administrations concerned or by the application of 4.10, it shall update the master copy of the Plan. The new or modified allotment in the Plan shall then have the same status as others appearing in the Plan and shall be considered as being in accordance with the Plan.

4.12 If required, the Plan Management Body shall send a copy of the revised Plan together with an updated Assignment List at six-monthly intervals to all Contracting Administrations and the Chairman of the ECC who shall send a copy to the Secretary-General of the ITU.

4.13 If a modification of an allotment, although made in accordance with the provisions of this Article, results in harmful interference to services of other administrations when it is converted into an assignment, the administration which brought the assignment into use shall, in cooperation with the affected administration, take the necessary action to eliminate such interference in accordance with the relevant provisions of the Radio Regulations.

4.14 Administrations shall communicate information to the Plan Management Body in electronic form. For submission of basic characteristics of T-DAB allotments the record-structure specified in Appendix 1 to Annex 3 shall be used.

ARTICLE 5

Compatibility and sharing with other radiocommunication services

Section 1: T-DAB interfering with other radiocommunication services

5.1 Any administration intending to convert an allotment into one or more assignments in accordance with Article 6 of this Special Arrangement, in the bands 47 - 68 MHz, 174 - 230 MHz and 230 - 240 MHz, shall obtain the agreement of Contracting Administrations whose other radiocommunication services are likely to be affected. However, such agreement is unnecessary if the T-DAB assignment is within the corresponding allotment and the limits referred to in the following sub-sections are not exceeded.

5.1.1 *Television stations* operating in the bands 47 - 68 MHz and 174 - 230 MHz which are in conformity with the Stockholm Agreement (1961) are likely to be affected by a proposed T-DAB frequency block assignment if the appropriate limits indicated in Annex 2 are exceeded.

5.1.2 *FM broadcasting stations* operating in the band 66 - 68 MHz which are in conformity with the Stockholm Agreement (1961) are likely to be affected by a proposed T-DAB frequency block assignment if the appropriate limits indicated in Annex 2 are exceeded.

5.1.3 *Stations in the mobile service* operating in the band 230 - 240 MHz in conformity with the Radio Regulations on a primary basis are likely to be affected by a proposed T-DAB frequency block assignment if the appropriate limits indicated in Annex 2 are exceeded.

5.1.4 *Stations in the land mobile service* operating in the bands 47 - 68 MHz and 174 - 230 MHz in conformity with the Radio Regulations on a permitted basis are likely to be affected by a proposed T-DAB frequency block assignment if the appropriate limits indicated in Annex 2 are exceeded.

5.1.5 *For the protection of the 243 MHz distress and safety frequency* administrations will take the appropriate measures to ensure that the limits given in Annex 2 are not exceeded by any T-DAB emission and be ready to immediately shut down any transmitter that appears to be exceeding these limits until it is confirmed that this is not the case.

Section 2: Other radiocommunication services interfering with T-DAB

5.2 Any administration intending to bring into service a station of another radiocommunication service in accordance with this Special Arrangement shall obtain the agreement of other Contracting Administrations whose T-DAB allotments are likely to be affected.

5.2.1 T-DAB allotments in the bands 47 - 68 MHz and 174 - 230 MHz which are in conformity with this Special Arrangement are likely to be affected by a proposed assignment to a television station if the appropriate limits indicated in Annex 2 are exceeded.

5.2.2 T-DAB allotments in the band 66 - 68 MHz which are in conformity with this Special Arrangement are likely to be affected by a proposed assignment to an FM broadcasting station if the appropriate limits indicated in Annex 2 are exceeded.

5.2.3 T-DAB allotments in the bands 47 - 68 MHz, 174 - 230 MHz and 230 - 240 MHz which are in conformity with this Special Arrangement are likely to be affected by a proposed assignment to a station in the mobile service if the appropriate limits indicated in Annex 2 are exceeded.

5.2.4 T-DAB allotments in the bands 223 - 230 MHz and 230 - 240 MHz which are in conformity with this Special Arrangement are likely to be affected by a proposed assignment to a station in the fixed service if the appropriate limits indicated in Annex 2 are exceeded.

Section 3: Sharing between T-DAB and other radiocommunication services in frequency bands not included in the Plan

5.3 Any administration intending to assign frequency blocks to T-DAB stations in accordance with this Special Arrangement shall obtain the agreement of any Contracting Administration whose radiocommunication services are likely to be affected. The limits indicated in Annex 2 may be used by common agreement between the administrations concerned.

5.3.1 *FM broadcasting stations* operating in the band 87.5 - 108 MHz which are in conformity with the Geneva Agreement (1984) are likely to be affected by a proposed T-DAB frequency block assignment if the appropriate limits indicated in Annex 2 are exceeded.

5.3.2 *Stations in the aeronautical radionavigation service* operating in the band 108 -

117.975 MHz in conformity with the Radio Regulations on a primary basis are likely to be affected by a proposed T-DAB frequency block assignment in the band 87.5 – 108 MHz. The appropriate co-ordination procedures shall be applied.

5.3.3 T-DAB allotments in the band 87.5 - 108 MHz which are in conformity with this Special Arrangement are likely to be affected by a proposed assignment to an FM broadcasting station if the appropriate limits indicated in Annex 2 are exceeded.

ARTICLE 6

Conversion of an allotment into one or more assignments and the associated co-ordination and notification procedures

Section 1: Basic principles of the conversion of an allotment into one or more assignments

6.1.1 When an administration intends to convert an allotment which is in accordance with this Special Arrangement into one or more assignments, or to modify a T-DAB assignment, it shall, using the procedures in Annex 4, determine if the assignment exceeds the field strength limits of the corresponding allotment in the Plan. If the limits are not exceeded, co-ordination is not required and the procedure in Section 2 below shall be applied. Otherwise, co-ordination is required and the procedure in Section 3 shall be applied.

6.1.2 When an administration intends to convert an allotment agreed on a bilateral or multilateral basis in the band 87.5 - 108 MHz and listed in Annex 5 into an assignment, it shall use the procedures given in 6.1.1 above. However, following successful completion of these procedures, the assignments shall be recorded in the T-DAB Assignment List as not being part of the Plan.

6.1.3 When an administration intends to suppress an assignment from the Assignment List, the same procedure as for the suppression of an allotment shall be used (see Article 4).

Section 2: Cases where co-ordination is not required

6.2.1 The administration shall send details of the proposed new or modified assignment to the Plan Management Body who shall publish these details.

6.2.2 An administration considering that co-ordination may be required shall, within six weeks of the date of publication, inform the requesting administration giving its reasons for doing so, with a copy to the Plan Management Body.

6.2.3 If there are no requests for co-ordination within six weeks of the date of publication, the Plan Management Body shall, upon request of the administration, include the assignment in the T-DAB Assignment List.

Section 3: Cases where co-ordination is required

6.3.1 The administration shall, using the procedures listed in Annex 4, identify those administrations likely to be affected and send a request for co-ordination to them. The details listed in Annex 3B of the proposed new or modified assignment, together with the names of administrations with which co-ordination has been sought, shall also be sent to the Plan Management Body who shall publish these details.

6.3.2 Following receipt of this publication, an administration considering that it is also affected shall inform the requesting administration and the Plan Management Body within six weeks, giving its reasons for doing so.

6.3.3 Replies to a co-ordination request shall be given within a period of twelve weeks. If no reply has been received within this period, an urgent reminder shall be sent. If, two weeks after dispatch of the reminder, no reply has been received, the administration with which co-ordination has been sought shall be considered to have agreed to the proposed assignment.

6.3.4 The requesting and affected administrations shall, by mutual agreement, decide whether it is necessary to apply the procedure described in Article 4 to obtain a modification to the Plan.

6.3.5 If the administrations concerned decide that application of the Article 4 procedure is not necessary because an agreement on the technical characteristics of the assignment was obtained in the course of consultations, the requesting administration shall inform the Plan Management Body of these technical characteristics. This assignment shall be considered as in accordance with the Plan and the Plan Management Body shall include it in the T-DAB Assignment List.

6.3.6 If the administrations concerned decide that application of the Article 4 procedure is necessary, the requesting administration shall apply the Article 4 procedure and inform the Plan Management Body accordingly.

Section 4: Co-ordination of new assignments and suppression of assignments to stations of other radiocommunication services

6.4.1 An administration may at any time assign frequencies to stations of other radiocommunication services in the bands 47 - 68 MHz, 174 - 230 MHz and 230 - 240 MHz provided that the relevant limits specified in Annex 2 are not exceeded. If they are exceeded, the agreement of any affected administrations shall be obtained by means of bilateral or multilateral agreements.

6.4.2 When an administration intends to suppress an assignment to a station or, where applicable, a service area of other radiocommunication services in the bands 47 – 68 MHz, 174 – 230 MHz and 230 – 240 MHz, it shall inform the administrations with which co-ordination of the station or service area had been carried out. The administration shall also inform the Plan Management Body.

Section 5: Notification of T-DAB assignments to the Radiocommunication Bureau

6.5.1 When a Contracting Administration proposes to bring into use a T-DAB assignment in accordance with this Special Arrangement, it shall seek the agreement of non-Contracting Administrations whose services are likely to be affected. The result of co-ordination shall be sent to the Radiocommunication Bureau when notifying the T-DAB assignment in accordance with the provisions of Article 11 of the Radio Regulations. The Contracting Administration shall also indicate that the assignment is in accordance with this Special Arrangement.

6.5.2 Notices of T-DAB assignments in accordance with this Special Arrangement will not be examined by the Radiocommunication Bureau with respect to harmful interference to or from the assignments recorded in the ITU Master Register on behalf of Contracting Administrations.

6.5.3 T-DAB assignments used in accordance with this Special Arrangement and in the frequency bands subject to the provisions of the Stockholm Agreement (1961) will be recorded in the ITU Master Register as not conforming to the Stockholm Agreement (1961).

6.5.4 T-DAB assignments used in the frequency bands subject to the Provisions of the Geneva Agreement (1984) will be recorded in the ITU Master Register as not conforming to the Geneva Agreement (1984). Moreover, assignments in the band 100 - 108 MHz shall include a specific reference to the fact that the station will be operated in accordance with the provisions of No. 4.4 of the Radio Regulations. These assignments will be recorded in the ITU Master Register subject to the provisions of No. 11.42.

6.5.5 Notices of T-DAB assignments in accordance with this Special Arrangement in the band 230 - 240 MHz, for which there is no allocation to broadcasting, shall include a specific reference to the fact that the station will be operated in accordance with the provisions of No. 4.4 of the Radio Regulations in relation to non-Contracting Administrations, except in the case when special arrangements have been concluded. These assignments will be recorded in the ITU Master Register subject to the provisions of No. 11.42.

Section 6: Status of T-DAB assignments in the Assignment List

6.6.1 In relations between Contracting Administrations, T-DAB assignments which are part of the Plan and included in the T-DAB Assignment List have the same status and have the degree of protection defined in the technical annexes to this Special Arrangement, irrespective of the date on which they are brought into service.

6.6.2 In the band 87.5 - 108 MHz, the status and protection of T-DAB assignments, entered into the Assignment List and marked as not part of the Plan, shall be agreed by separate co-ordination between the administrations concerned. However, the provisions of the current Radio Regulations or of other regional agreements shall apply in relations with other administrations.

6.6.3 T-DAB assignments in the band 87.5 - 108 MHz shall not prejudice a future replanning of this band.

Section 7: Exchange of information

6.7 Administrations shall communicate information to the Plan Management Body in electronic form. For submission of basic characteristics of T-DAB assignments the record-structure specified in Appendix 2 to Annex 3 shall be used.

ARTICLE 7

Accession to the Special Arrangement

7.1 Any CEPT Administration which has not signed the Special Arrangement may at any time deposit an instrument of accession with the Chairman of the ECC, who shall immediately inform the other administrations. Accession to the Special Arrangement shall be made without reservations and shall apply to the Plan as it stands at the time of accession.

7.2 Accession to the Special Arrangement shall become effective on the date on which the instrument of accession is received by the Chairman of the ECC.

ARTICLE 8

Scope of application of the Special Arrangement

8.1 The Special Arrangement shall bind Contracting Administrations in their relations with one another but shall not bind those administrations in their relations with non-Contracting Administrations.

8.2 If a Contracting Administration enters reservations with regard to any provision of this Special Arrangement, other Contracting Administrations shall be free to disregard such provisions in their relations with the administration which has made such reservations.

ARTICLE 9

Notification of this Special Arrangement to the ITU

9 In accordance with No. 6.5 of the Radio Regulations the Chairman of the ECC, through his Administration, shall notify the Secretary-General of the ITU of the conclusion and content of this Special Arrangement and shall provide details of:

- any administration which denounces this Special Arrangement;
- the expiry of the Special Arrangement;
- any administration which accedes to this Special Arrangement.

ARTICLE 10

Denunciation of the Special Arrangement

10.1 Any Contracting Administration may denounce this Special Arrangement at any time by a notification sent to the Chairman of the ECC, who shall inform the other Contracting Administrations.

10.2 Denunciation shall become effective one year after the date on which the Chairman of the ECC receives the notification of denunciation.

10.3 On the date on which the denunciation becomes effective, the Plan Management Body shall delete from the Plan the allotments entered in the name of the Administration denouncing the Special Arrangement.

ARTICLE 11

Revision of the Special Arrangement

11 With the exception of modifications to the Plan in accordance with Article 4, a revision of this Special Arrangement shall be decided only by the Contracting Administrations at a CEPT meeting convened by the ECC in accordance with its procedures, to which at least all the Contracting Administrations shall be invited.

ARTICLE 12

Entry into force and duration of the Special Arrangement and other provisions

12.1 This Special Arrangement as revised in Maastricht 2002 shall enter into force on 1 September 2002, at 0001 hours UTC.

12.2 This Special Arrangement and the annexed Plan have been established with a view to meeting the requirements for T-DAB.

12.3 This Special Arrangement shall remain in force until it is abrogated by the Contracting Administrations at a CEPT meeting convened by the ECC in accordance with its procedures, to which all the Contracting Administrations shall be invited.

12.4 This text shall exist in the English, French and German language, each version being authentic.

ARTICLE 13

Cases where ratification is required

13.1 In accordance with the constitutional rules in force in their respective countries, some administrations may only be bound by this Special Arrangement subject to ratification.

13.2 The instrument of ratification shall be deposited, in as short a time as possible, with the Federal Ministry of Economics and Technology of the Federal Republic of Germany which shall notify the Contracting Administrations of each deposit of ratification.

ANNEX 1

The T-DAB Frequency Block Allotment Plan

1. The asterisks in the columns 1 and 2 under the heading "Coordination required before the implementation of T-DAB Requirements" have the following meaning:

   Column 1: Co-ordination required with fixed and mobile services between 230 MHz and 240 MHz;

   Column 2: Other general co-ordination conditions.

   The Column headed “Remarks” identifies administrations with which co-ordination is required.

2. The agreements between individual administrations specified in the column under the heading "Agreement number" are contained in the "Supplementary Information" to this Special Arrangement.

3. The test points for the T-DAB Allotment Areas specified in the column under the heading "T-DAB Identifier" are also contained in the "Supplementary Information" mentioned in 2 above.

4. The information described in 2 and 3 above is also available from the Plan Management Body.

T-DAB Identifier	Name	Block Identifier	Agreement number	Co-ordination required before the implementation of T-DAB requirements		Remarks
				1	2	
ALB00001	ALB-DAB-1	12A				
AUT00002	KAERNTEN	12D	0371 0357 1553 1716 0265	*		HRV
AUT00003	NIEDEROESTERREICH	12B	1554 3938			
AUT00004	OBEROESTERREICH	12A	0346 1593 1555 0266 1717			
AUT00005	SALZBURG	12B	1556 0267 1718			
AUT00006	STEIERMARK	12C	1557 0268			
AUT00007	TIROL	12C	0377 1558 1719			
AUT00008	VORARLBERG	12A	0340 0279 1559 1720			
BEL10001	VLAANDEREN	12A	0282 2806			
BEL10002	VLAANDEREN 002	11B	0283 2807 1414			
BEL10003	VLAANDEREN 003	11C	0284 2808 1415			
BEL10004	VLAANDEREN 004	6C	0285 1738 2809 1416			
BEL20001	DAB-COM.FRANCAISE	12B	0287 2811 3337			
BEL20002	DAB-BRABANT WALLON	9C	0288 1739 2812 1417			
BEL20003	DAB-HAINAUT	6D	0289 1740 2813 1418			
BIH00001	BIH-DAB-1	12B	4960 4962			
BUL20001	SOFIA	12A	3472 4615			
BUL20004	STARA ZAGORA	12C	3475 4616 3983			
BUL20006	RUSE	12D	3477 4617 3985			
BUL20007	MONTANA	12D	3478 4374 4618			
BUL20008	PLEVEN	12B	3479 4619			
CVA00005	CVA - VATICAN RADIO	12D	4069 0538 0420			
CYP00001	PRIO 1	12C				
CYP00002	PRIO 1	4A				
CZE00002	CZE PRIOR.1 BOHEMIA	12C	1372 0244 0518			
CZE00003	CZE PRIOR. 1 MORAVIA	12D	0242 0245 0519			
DNK10001	NATIONWIDE (CENTRAL)	12C	0355 3506 1449 4067			
DNK10002	NATIONWIDE (BORNHO)	12C	3316 1445			
DNK10003	NATIONWIDE (FAROES)	12B				
DNK10004	REGIONAL (FAROES)	12C				
DNK10005	REGIONAL (EAST)	11C	4964 4965		*	S
DNK10006	REGIONAL (West)	13E	0354 4963	*		D
DNK10007	REGIONAL (BORNHOLM)	11C	2894 2893 4394			
D__00001	SCHLESWIG-HOLSTEIN	12D	1979			
D__00002	HAMBURG	12C				

D__00003	NIEDERSACHSEN	12A	1981 2102			
D__00004	BREMEN UND BREMERHV.	6C	3408			
D__00005	NORDRHEIN-WESTFALEN	12D	1983 3532	*		F
D__00006	HESSEN	12C	1984 3533 3480			
D__00007	RHEINLAND-PFALZ	12A	1985 2105 3534			
D__00008	BAYERN	12D	1986 3535 3482	*		F
D__00009	SAARLAND	8B	3407			
D__00010	BADEN-WUERTTEMBERG	12B	1988			
D__00011	MECKLENBURG-V. WEST	12B	1989 4488			
D__00012	BRANDENBURG WEST	12D	3365			
D__00013	SACHSEN-ANHALT	12C				
D__00014	BERLIN	8C	4155 3950			
D__00015	THUERINGEN	12B	3541 3486			
D__00016	SACHSEN WEST	12A	2112			
D__00017	NEUWERK ZU HAMBURG	7B	3507			
D__00018	HELGOLAND	7C				
D__00019	HELGOLAND 2	9C	4912			
D__00120	MECKLENBURG-V. OST	5C	4495 4422 4487			
D__00121	BRANDENBURG OST	11C	3405			
D__00122	SACHSEN OST	5C	3364 3404			
EST00001	EESTI	13C	4606	*		RUS
E__00001	ASTURIAS	11A				
E__00002	CANTABRIA	11C	2855			
E__00003	PAIS VASCO	11A	2856			
E__00004	NAVARRA	11D	2857			
E__00005	LA RIOJA	11C	2858			
E__00006	ARAGON	11A	2859			
E__00007	CATALUNA	11D	2860			
E__00008	VALENCIA	11C	3458			
E__00009	CASTILLA LA MANCHA	11D	2861			
E__00010	MURCIA	11A	3457			
E__00011	ANDALUCIA	11C				
E__00012	EXTREMADURA	11A	2863			
E__00013	MADRID	11C				
E__00014	CASTILLA LEON	11D	2865			
E__00015	GALICIA	11C				
E__00016	CEUTA	11D	3454			
E__00017	MELILLA	11D	3456			
E__00018	BALEARES	11D	2866			
E__00019	CANARIAS	11C	3453			
FIN10001	SUOMI1	13B	4535 4548	*		RUS
FIN10002	AHVENANMAA1	10C	2777			
FIN10003	SUOMI2	12C	4547		*	RUS
FIN20001	LANSI-UUSIMAA	11C				

FIN20002	AHVENANMAA2	10B	2778			
FIN20003	VARSINAIS-SUOMI	12B	4536		*	EST S
FIN20004	SATAKUNTA	12B				
FIN20005	HAME	5C				
FIN20006	PIRKANMAA	12C				
FIN20007	PAIJAT-HAME	7C				
FIN20008	KYMENLAAKSO	7D				
FIN20010	ETELA-SAVO	12D	4998		*	RUS
FIN20011	POHJOIS-SAVO	12C				
FIN20012	POHJOIS-KARJALA	10C	4999		*	RUS
FIN20013	KESKI-SUOMI	12B				
FIN20014	ETELA-POHJANMAA	12A				
FIN20015	VAASA	12A				
FIN20016	KESKI-POHJANMAA	12A				
FIN20017	POHJOIS-POHJANMAA	12D	5000	*	*	RUS S
FIN20018	KAINUU	12D	4997	*	*	RUS
FIN20019	LAPPI	12A			*	S
FIN20020	ITA-UUSIMAA	11C				
GRC00001	NATIONAL	12D	3941 1399 4396	*		I
GRC00003	IPEIROS	12B	3413		*	I
GRC00004	THESSALIA-MACEDONIA	12B	3412			
GRC00005	ATTIKI	12C	3415			
GRC00006	PATRA	12A	3946 3414			
G__60001	INR ENGLAND	11D	4913 3739			
G__60002	INR WALES	11D				
G__60003	INR CHANNEL ISLANDS	11C				
G__70001	INR NORTHERN IRELAND	12D	2766			
G__80001	INR ISLE OF MAN	11C				
G__90001	UK_BBC	12B	4914 3742 2768			
G__95001	INR SCOTLAND	12A				
G__99901	UK_GIB	12B			*	E
HNG00001	HNGWEST	12D	0410 4404 2113 2138 2203 2201			
HNG00002	HNGBALATON	12A	2200			
HNG00003	HNGCENTRE	12B	2205			
HNG00004	HNGNORTHEAST	12D	2116 2141 3312 3311		*	ROU
HNG00006	HNGSOUTHWEST	12C	2207			
HOL05000	LANDELIJK BLOCK 1	12C	1408 1708			
HOL05001	REGIO 1 N-NEDERLAND	11C	1737			
HOL05002	REGIO 2 W-NEDERLAND	11D	1410 1735 1710			
HOL05003	REGIO 3 M-NEDERLAND	12B	1411 1711			
HOL05004	REGIO 4 Z-NEDERLAND	6B	1412 1734 1712 1715 1366		*	D G
HRV00559	HRV1	12A	0416			
HRV00561	HRV3	12C	3656 0304			
HRV00562	HRV4	12A	3657 0305			

HRV00563	HRV5	12B	0298 3658 0306			
HRV00564	HRV6	12D	0299 2155 0327 3659 0307			
HRV00565	HRV7	12A	3660 0308			
HRV00566	HRV8	12D	0301 0329 3661			
IRL10001	IRELAND1	12C	1661 1662			
IRL10002	IRELAND2	12A	1663			
ISL00001	ISL-DAB-1	12A				
ISL00002	ISL-DAB-2	12B				
I__00001	VALLE D'AOSTA VHF	12A	4442 3211			
I__00297	PIEMONTE VHF	12B	4443 3212			
I__00298	LOMBARDIA VHF	12C	4446 3213			
I__00299	ALTO ADIGE VHF	12A	4378 4447 3214 4527			
I__00300	TRENTINO VHF	12B	4448 3215			
I__00301	VENETO VHF	12D	4449 4556 3216 4529 4697			
I__00302	FRIULI V. GIULIA VHF	12A	4380 3217 4923 4925		*	HRV
I__00303	LIGURIA VHF	12A	4439 3218			
I__00304	EMILIA R. VHF	12A	4451 3219			
I__00305	MARCHE VHF	11D	3220			
I__00306	TOSCANA VHF	12B	4440 3221			
I__00307	UMBRIA VHF	12C	4453 3222			
I__00308	LAZIO VHF	12A	4444 3223			
I__00309	ABRUZZO VHF	12B	4454 3224			
I__00310	MOLISE VHF	11D	3225			
I__00311	CAMPANIA VHF	12D	4930 4566 3226 4913	*		F
I__00312	PUGLIA VHF	12C	4456 3227			
I__00313	BASILICATA VHF	12B	3228			
I__00314	CALABRIA VHF	12A	3229			
I__00315	SICILIA VHF	12C	4459 3230			
I__00316	SARDEGNA VHF	12B	4441 3231			
LTU00001	LITHUANIA	13C	4599 4598	*		POL RUS UKR
LUX00001	LUXEMBOURG1	12C	2845 1730 1726		*	F
LVA00001	LATVIA	13B	4605	*		RUS
MDA00001	MDA-DAB-1	12B			*	UKR
MKD00001	MKD-DAB-1	12C	4959			
MLT00016	MALTA	5D				
MLT00017	MALTA	6A				
MLT00018	MALTA	6C				
NOR00001	NATIONAL	12D	3346 3719		*	RUS
NOR00002	NORDNORGE	13E	4522	*		RUS
NOR00003	MIDTNORGE	12C				
NOR00004	VESTNORGE	12B				
NOR00005	INDRE_OESTLAND	13E				
NOR00006	SOERNORGE	13F	4520			
NOR00007	OSLOFJORD	12C				

NOR00008	FINNMARK	12B	4521		*	RUS
POL10001	SZCZECIN	11A	3373			
POL10002	KOSZALIN-SLUPSK	11C	3369			
POL10003	GDANSK-ELBLAG	11A	4673 3292			
POL10004	OLSZTYN	9A				
POL10005	BIALYSTOK-LOMZ-SUWAL	10A	4070 4996		*	LTU RUS
POL10006	BIALAPODLASKA-SIEDLC	5C				
POL10007	CHELM-LUBLIN	12D				
POL10008	TARNOBRZEG	6D				
POL10009	ZAMOSC	6C	3714		*	UKR
POL10010	KROSNO-PRZEM-RZESZOW	9A	3299 3390 3715		*	UKR
POL10011	KRAKOW-NSACZ-TARNOW	9B	1440 3391			
POL10012	OPOLE	9B	1441 3368 3392			
POL10013	BIELSKOB-CZEST-KATOW	9A	1442 3393			
POL10014	JEL-LEGN-WALB-WROCL	5D	3411 3362 4118			
POL10015	GORZOWWLKP-ZIELONAG	8A	4115 3374 3294			
POL10016	BYDG-TORUN-WLOCLAWEK	12C				
POL10017	CENTRALPOLAND1	11B	4117 3370 3293			
POR00500	POR / NATIONAL WIDE	12B	2847			
POR00501	POR1 / MINHO/PORTO	11D				
POR00502	POR2 /TRAS-OS-MONTES	12C				
POR00503	POR3 / BEIRA-LITORAL	12A	2851			
POR00504	POR4/BEIRA-ALTA/BAIX	11C				
POR00505	POR5 / ESTREMADURA	12D				
POR00506	POR6 / ALTO-ALENTEJO	12C				
POR00507	POR7 /BAIXO-ALENTEJO	11D	2853			
POR00508	POR8 / ALGARVE	12C				
POR00509	POR9/FUNCHAL-MACHICO	12A				
POR00510	POR10/SANTANA-VICENT	12D				
POR00511	POR11 / PORTO-SANTO	12C				
POR00512	POR12 /AZR/S.MIGUEL	12C				
POR00513	POR13 /AZR/TERCEIRA	12A				
POR00514	POR14 /AZR/ FLORES	12D				
ROU00001	DAB ZONA 1	12A	4071			
ROU00002	DAB ZONA 2	12D	4072			
ROU00003	DAB ZONA 3	12C	4084 4073 4848			
ROU00004	DAB ZONA 4	12A	4085 4074			
ROU00005	DAB ZONA 5	12C	4086 4075			
ROU00006	DAB ZONA 6	12B	4076			
ROU00007	DAB ZONA 7	12A	4077			
ROU00008	DAB ZONA 8	12B	4078			
ROU00009	DAB ZONA 9	12C	4079			
ROU00010	DAB ZONA 10	12B	4080			
ROU00011	DAB ZONA 11	12D	4081			

SMR00001	RADIOTVSANMARINO-3-	11C	0422			
SUI00001	SUI ROMANDEMIN 1 DAB	12B	4500			
SUI00002	SUI DEUTSCH 1 DAB	12C	4995 4501		*	F
SUI00003	SUI RUMANTSCH 1 DAB	12D	4501 4502 4534	*	*	F
SUI00004	SUI ITALIANA 1 DAB	12A	4503 4498			
SUI00005	SUI POSC-BREG 1 DAB	12A	4504 4497			
SUI00041	SUI ROMANDEJU 1 DAB	12A	4499			
SVK00001	SVK_DAB_1.PRIORITY	12C	4890 3394 4906			
SVK00022	SVK_DAB_2.PRIORITY	12A	3396			
SVK00023	SVK_DAB_2.PRIORITY	12B	3397 4909			
SVN00165	VZHOD	12B	2937 2896			
SVN00166	ZAHOD	12C	2900 2938 2897			
S__00001	NORRBOTTEN	12D				
S__00002	VASTERBOTTEN	12C				
S__00003	VASTERNORRLAND	12D				
S__00004	JAMTLAND	13E				
S__00005	GAVLEBORG	13F				
S__00006	DALARNA	12C				
S__00007	VARMLAND	13F				
S__00008	UPPLAND	13C	3354			
S__00009	STOCKHOLM	12C				
S__00010	OREBRO	12D				
S__00011	VASTMANLAND	12D				
S__00012	SORMLAND	13E				
S__00013	OSTERGOTLAND	13F	4485			
S__00014	GOTLAND	11C				
S__00015	BLEKINGE	12D				
S__00016	KRISTIANSTAD	12A	4594 0484			
S__00017	MALMOHUS	12A	3260 3398 3401			
S__00018	KALMAR	12D				
S__00019	KRONOBERG	12C				
S__00020	JONKOPING	12C				
S__00021	GOTEBORG	12A	4480			
S__00022	VAST	12A	4934 3402			
S__00023	SKARABORG	13E	4486			
S__00024	HALLAND	12D				
S__00025	SJUHARAD	12D				
S__00026	SWEDEN_NATIONAL	12B				
TUR70000	REGION-1	12A	3958 4868 4157			
TUR70001	REGION-2	12B	3959 4158			
TUR70002	REGION-3	12B	4159			
TUR70003	REGION-4	12B	4160			
TUR70004	REGION-5	12C	4161			
TUR70005	REGION-6	12B	4162			

UKR00026	UKRVL	13C	4725 4775 4700 4750	*		LTU POL ROU RUS SVK
UKR00027	UKRLV	13E	4801 4776	*		LTU HNG ROU SVK
UKR00028	UKRRV	13A	4777 4702	*		LTU ROU RUS SVK
UKR00029	UKRUG	13B	4803 4778 4753	*		HNG ROU SVK
UKR00030	UKRIF	13A	4804 4779	*		HNG ROU SVK
UKR00031	UKRCH	13C	4805 4730 4780 4755	*		POL ROU SVK
UKR00032	UKRTE	13D	4806 4731 4781 4756	*		LTU HNG POL ROU SVK
UKR00033	UKRGM	13C	4732 4782 4707 4757	*		LTU POL ROU RUS SVK
UKR00034	UKRXM	13B	4783 4708 4758	*		LTU ROU RUS
UKR00035	UKRVN	13A	4784 4709	*		ROU RUS
UKR00036	UKROD	13D	4785	*		ROU RUS
UKR00037	UKRKV	13B	4786 4711	*		LTU ROU RUS
UKR00038	UKRCK	13C	4787 4712	*		ROU RUS
UKR00039	UKRCN	13A	4713	*		LTU ROU RUS
UKR00040	UKRPT	13A	4714	*		ROU RUS
UKR00041	UKRSM	13C	4715	*		ROU RUS
UKR00042	UKRKG	13C	4791 4716	*		ROU RUS
UKR00043	UKRNK	13B	4792 4717	*		ROU RUS
UKR00044	UKRXN	13C	4793 4718	*		ROU RUS
UKR00045	UKRXK	13B	4719	*		ROU RUS
UKR00046	UKRLG	13A	4720	*		ROU RUS
UKR00047	UKRDP	13A	4796 4721	*		ROU RUS
UKR00048	UKRDN	13C	4722	*		ROU RUS
UKR00049	UKRZP	13B	4723	*		ROU RUS
UKR00050	UKRKR	13A	4799 4724	*		ROU RUS

ANNEX 2

Technical Bases for T-DAB Planning

1. INTRODUCTION

This Annex contains information relevant to the establishment of the CEPT T-DAB Plan in the VHF frequency band.

Relevant T-DAB system parameters and network concepts, including a description of single frequency networks (SFN), are contained in the following documents:

- European Standard EN 300 401 "Radio broadcasting systems; Digital Audio Broadcasting (DAB) to mobile, portable and fixed receivers", (ETSI);

- ITU-R Special Publication "Terrestrial and Satellite Digital Sound Broadcasting to Vehicular, Portable and Fixed Receivers in the VHF/UHF Bands" (Geneva, 1995);

- Document EBU BPN-003 "Technical Bases for T-DAB Services Network Planning and Compatibility with existing Broadcasting Services" (Geneva, June 1995)[1];

- Recommendation ITU-R BS.774[2] and Report 1203[3].

2. FIELD STRENGTH CONSIDERATIONS

2.1 General

The minimum equivalent field strengths are given for three frequencies (60 MHz, 100 MHz and 230 MHz) and for different conditions.

The calculations used for this assume that the receiving antenna, which is believed to be representative for mobile and portable reception, is at a height of 1.5 metres above ground level, omni-directional, and has a gain slightly lower than that of a dipole.

2.2 General field strength prediction[4]

The field strength prediction method used (50% locations, 50% time for the wanted signal and 50% locations, 1% time for the unwanted signal), together with the correction factors given in 2.2.1 and 2.2.2, is described below.

Mixed land-sea paths are calculated according to the interpolation method given in section 4 of the Appendix.

For the calculation of tropospheric (1% time) and steady (50% time) interference, see Recommendation ITU-R BT.655.

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[1] The latest version of this document is EBU BPN-003Rev.1 "Technical Bases for T-DAB Services Network Planning and Compatibility with existing Broadcasting Services" (Geneva, May 1998);

[2] The latest version is Recommendation ITU-R BS.774-2

[3] ITU-R Report 1203 is replaced by the Recommendation ITU-R BS.1114-1

[4] Field strength prediction method and propagation models used in this Annex have their origin in the former Recommendation ITU-R P.370-7, which was in force in 1995 when the Wiesbaden 1995 Special Arrangement was established. Relevant information taken from the former Recommendation ITU-R P. 370-7 can be found in the Appendix. to this Annex

2.2.1 Location percentage requirements and associated correction

The required location percentage for T-DAB services is 99%. Therefore, taking into account an estimated standard deviation of 5.5 dB, an increase of 13 dB (2.33 x 5.5 dB) shall be applied to the field strength values (50% locations) as given in the Appendix to this Annex to obtain the 99% location values required for planning a T-DAB service.

2.2.2 Receiving antenna height gain correction

The propagation curves used relate to a receiving antenna height of 10 metres above ground, whereas a T-DAB service will be planned primarily for mobile reception, i.e. with an effective receiving antenna height of about 1.5 metres. An allowance of 10 dB is necessary to convert the minimum required T-DAB field strength at a vehicle antenna height of 1.5 metres to the equivalent value at 10 metres.

2.2.3 Minimum wanted field strength used for planning

Table 1 contains values for the three VHF bands, with the inclusion of a correction of 13 dB for location percentage and of 10 dB for height gain.

Frequency band	Band I *)	Band II	Band III
Minimum equivalent field strength (dB(µV/m))	25	31	35
Location percentage correction factor (50% to 99%) (dB)	+13	+13	+13
Antenna height gain correction (dB)	+10	+10	+10
Minimum median field strength for planning (dB(µV/m))	48	54	58

Table 1: Minimum median field strengths (dB(µV/m)) at an antenna height of 10 metres

*) The following difficulties have been identified with Band I:

- the large dimensions of transmitting antennas;
- the dimensions and complexity of receiving antennas;
- higher man-made noise;
- the addition of up to 40 dB to the minimum wanted field strength to take account of interference caused by sporadic E propagation.

2.3 Unwanted emissions

2.3.1 Spectrum masks for T-DAB out-of-band emissions

The out-of-band radiated signal in any 4 kHz band shall be constrained by one of the masks defined in Figure 1.

Case 1: The solid line mask shall apply to T-DAB transmitters operating in areas critical for adjacent channel T-DAB to T-DAB interference, and in any case when it is necessary to protect other services operating on adjacent frequencies on a primary basis.

Case 2: The dashed line mask shall apply to T-DAB transmitters in other cases.

2.3.2 Protection of distress and safety frequencies

The 121.5 MHz and 243 MHz distress and safety frequencies must be protected from unwanted emissions from T-DAB transmitters. These distress signals are monitored by aircraft, and by search and rescue satellites in orbit at altitudes of about 850 km. Consequently, a potentially large number of T-DAB transmitters will be simultaneously within the coverage area of the satellite.

To ensure the reliable detection of distress signals, an absolute limit for unwanted emissions of not more than -50 dBm measured in a 50 kHz band centred on 121.5 MHz and 243 MHz is required. This level is calculated to remove all possibility of harmful interference and is described below.

i) - Parameters of the search and rescue satellite system

Altitude of the satellite	:	850 km
Minimum elevation of the satellite from the distress beacon	:	5 degrees
Maximum distance from the beacon to the satellite	:	2890 km
Free space attenuation	:	149.4 dB
Gain of the satellite antenna in the direction of the beacon	:	-5 dB
e.i.r.p. of the beacon	:	12 dBm
Bandwidth	:	46 kHz
C/I required	:	20 dB

ii) - Required protection from T-DAB transmissions

Maximum elevation of the satellite from the T-DAB transmitter	:	90 degrees
Minimum distance from the T-DAB transmitter to the satellite	:	850 km
Free space attenuation	:	138.7 dB
Gain of the satellite antenna in the direction of the T-DAB transmitter	:	1 dB
Bandwidth ratio between 1536 kHz and 46 kHz	:	15.2 dB

Maximum allowable cumulated interfering power from T-DAB transmitters:

I_{max} = 12 - 20 - (149.4 + 5 - 138.7 + 1 - 15.2) = -9.5 dBm

It should be noted that the SARSAT mission would no longer be possible with a C/I < 10 dB.

iii) - Calculation of the limit for unwanted emissions

The radio horizon at 850 km altitude is about 2890 km. Therefore, nearly all the T-DAB transmitters in the CEPT area are potentially within the radio horizon, and the total number of emissions could eventually significantly exceed 10 000. The worst case is taken using free-space attenuation from the T-DAB transmitters and not considering the details of the interference mechanisms. A bandwidth of about 50 kHz is required in the satellite receiver to accommodate the poor frequency stability of emergency beacons operating under extreme environmental stress. The limit for unwanted emissions can therefore be calculated as follows:

Cumulative unwanted emission limit	-9.5 dBm	
Per transmitter	-9.5 - 10log(10 000) =	-49.5 dBm

Absolute unwanted emission limit per T-DAB transmitter:	-50 dBm measured in a 50 kHz band centred on 243.0 MHz.

3. POSITION OF FREQUENCY BLOCKS

Table 2 shows the adopted harmonised channelling plan. This is based on tuning increments of 16 kHz and guard bands of 176 kHz between adjacent T-DAB frequency blocks.

Within each 7 MHz television channel, four T-DAB frequency blocks have been accommodated, giving common centre frequencies for T-DAB frequency blocks, irrespective of the TV system used.

To enhance compatibility with TV sound, the guard bands for T-DAB frequency blocks A in Channel N and D in Channel N-1 are between 320 kHz and 336 kHz. The position of T-DAB frequency blocks within Channel 12 is shown in Figure 2.

The channelling plan for the band 230 - 240 MHz accommodates six T-DAB frequency blocks, but this is only achieved by dividing it into two parts as shown in Figure 3. The narrow guard band between blocks 13C and 13D will not allow the use of these two blocks in adjacent service areas.

T-DAB block number	Centre frequency (MHz)	Frequency range (MHz)	Lower guard band[1] (kHz)	Upper guard band[1] (kHz)
2A	47.936	47.168 - 48.704	-	176
2B	49.648	48.880 - 50.416	176	176
2C	51.360	50.592 - 52.128	176	176
2D	53.072	52.304 - 53.840	176	320
3A	54.928	54.160 - 55.696	320	176
3B	56.640	55.872 - 57.408	176	176
3C	58.352	57.584 - 59.120	176	176
3D	60.064	59.296 - 60.832	176	336
4A	61.936	61.168 - 62.704	336	176
4B	63.648	62.880 - 64.416	176	176
4C	65.360	64.592 - 66.128	176	176
4D	67.072	66.304 - 67.840	176	-
5A	174.928	174.160 - 175.696	-	176
5B	176.640	175.872 - 177.408	176	176
5C	178.352	177.584 - 179.120	176	176
5D	180.064	179.296 - 180.832	176	336
6A	181.936	181.168 - 182.704	336	176
6B	183.648	182.880 - 184.416	176	176
6C	185.360	184.592 - 186.128	176	176
6D	187.072	186.304 - 187.840	176	320
7A	188.928	188.160 - 189.696	320	176
7B	190.640	189.872 - 191.408	176	176
7C	192.352	191.584 - 193.120	176	176
7D	194.064	193.296 - 194.832	176	336
8A	195.936	195.168 - 196.704	336	176
8B	197.648	196.880 - 198.416	176	176
8C	199.360	198.592 - 200.128	176	176
8D	201.072	200.304 - 201.840	176	320
9A	202.928	202.160 - 203.696	320	176
9B	204.640	203.872 - 205.408	176	176
9C	206.352	205.584 - 207.120	176	176
9D	208.064	207.296 - 208.832	176	336
10A	209.936	209.168 - 210.704	336	176
10B	211.648	210.880 - 212.416	176	176
10C	213.360	212.592 - 214.128	176	176
10D	215.072	214.304 - 215.840	176	320
11A	216.928	216.160 - 217.696	320	176
11B	218.640	217.872 - 219.408	176	176
11C	220.352	219.584 - 221.120	176	176
11D	222.064	221.296 - 222.832	176	336
12A	223.936	223.168 - 224.704	336	176
12B	225.648	224.880 - 226.416	176	176
12C	227.360	226.592 - 228.128	176	176
12D	229.072	228.304 - 229.840	176	176
13A	230.784	230.016 - 231.552	176	176
13B	232.496	231.728 - 233.264	176	176
13C	234.208	233.440 - 234.976	176	32
13D	235.776	235.008 - 236.544	32	176
13E	237.488	236.720 - 238.256	176	176
13F	239.200	238.432 - 239.968	176	-

Table 2: T-DAB frequency blocks

[1] Note: In arriving at these values, it has been assumed that the T-DAB transmitting and receiving equipment must allow for the use of adjacent T-DAB frequency blocks in adjacent areas, i.e. using a 176 kHz guard band.

4. SHARING AND COMPATIBILITY

4.1 Intra-service (T-DAB interfered with by T-DAB)

The T-DAB co-block protection ratio is 10 dB.

Table 3 below shows the values for the maximum permissible interfering field strength used for planning.

The standard deviation of the location variation of a T-DAB signal is assumed to be 5.5 dB (see Appendix). The field strength values for wanted and unwanted signals are assumed to be uncorrelated. To protect wanted T-DAB signals for 99% of locations against interference from another T-DAB transmission, a propagation correction of 2.33 x 5.5 x $\sqrt{2}$ = 18 dB as well as the T-DAB protection ratio (T-DAB to T-DAB) of 10 dB shall be taken into account.

$$E_I^{Max} = E_W^{Min} - PR - PC$$

where

E_I^{Max} = maximum permissible interfering field strength
E_W^{Min} = minimum median equivalent field strength
PR = protection ratio
PC = propagation correction

Frequency band	Minimum wanted field strength (dB(μV/m)) (50% locations, 10 m height)	Protection ratio T-DAB interfered with by T-DAB (dB)	Propagation correction (dB)	Maximum permissible interfering field strength (dB(μV/m))
BAND I	48	10	18	20*
BAND II	54	10	18	26*
BAND III	58	10	18	30*

* In the case of an SFN, this figure shall be increased by 3 dB.

Table 3: Maximum permissible interfering field strength (T-DAB to T-DAB)

4.2 Inter-service (T-DAB versus Other services)

4.2.1 T-DAB interfered with by other services

The maximum allowable field strength of an interfering signal (FS_I) to protect the minimum wanted field strength of a T-DAB signal ($FS_{T\text{-}DAB}$) is calculated as follows:

Maximum allowable FS_I = ($FS_{T\text{-}DAB}$ - PR - 18) dB(μV/m).

The following tables contain the protection ratio values used in the calculations.

The service information is shown as follows, for example:

Aeronautical safety service 1		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
AL	58.0	10000

where

- **AL** is the service identifier;
- **58.0** is the T-DAB field strength to be protected in dB(µV/m) for Band III; see Table 1 for the values applicable to Bands I and II;
- **10000** is the other service transmit antenna height (in metres).

The columns in the table relating to the above example have the following meaning:

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

where

- **-0.9** is the frequency difference in MHz, i.e. the centre frequency of the interfering other service minus the centre frequency of the T-DAB block suffering interference;*
- **-66.0** is the required protection ratio in dB.

* In the case of an interfering TV signal the vision carrier frequency has to be taken instead of the centre frequency of the TV channel.

Aeronautical safety service 1		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
AL	58.0	10000

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

CZE service. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
CA	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Aeronautical safety service 2		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
DA	58.0	10000

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

Aeronautical safety service (Germany); DB. The centre frequency is 235.0 MHz and the first channel is at 231.0 MHz. The values used are the same as those for the ME service		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
DB	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military tactical distance measuring system (DME) Sweden (236 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
H1	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military tactical distance measuring system (DME) Sweden (241 MHz). No information, CW interference data used .		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
H2	58.0	25.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military tactical distance measuring system (DME) Sweden (238.5 MHz)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
H3	58.0	500.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile Navy service in Sweden (233.1 MHz, 233.2 MHz, 233.3 MHz) transmit only		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
H4	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Italian service. No information, CW interference data used (224.25 MHz)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
IA	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Land mobile service (173 - 174 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MA	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military narrowband FM system, analogue (47 - 68 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
MB	48.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military narrowband FM system, digital (47 - 68 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
MC	48.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military narrowband FM system, frequency hopping (47 - 68 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
MD	48.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system, analogue Minimum separation distance is 1 km. Frequency range is 230 to just above 240 MHz, but channel frequencies are not identical in all countries. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
ME	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system, digital (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MF	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system, frequency hopping (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MG	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile Navy service, analogue (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MI	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile Navy service, digital (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MJ	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile Navy service, frequency hopping (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MK	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military fixed services (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
ML	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Distress frequency 243 MHz. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MN	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military Mobile and Fixed (tactical) services. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MT	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile radio - low power devices S2 data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
MU	58.0	10.0

Δ f (MHz)	-2.0	-1.9	-1.8	-1.7	-1.6	-1.5	-1.4	-1.3	-1.2	-1.1	-1.0
PR (dB)	-48.0	-47.9	-47.1	-46.7	-46.4	-46.0	-45.4	-45.1	-43.9	-38.4	-37.5
Δ f (MHz)	-0.9	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4	-0.3	-0.2	-0.1	0.0
PR (dB)	-28.9	-12.9	-4.9	-1.0	2.1	3.5	4.3	4.1	4.4	4.1	4.0
Δ f (MHz)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0
PR (dB)	4.1	4.4	4.1	4.3	3.5	2.1	-1.0	-4.9	-12.9	-28.9	-37.5
Δ f (MHz)	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	
PR (dB)	-38.4	-43.9	-45.1	-45.4	-46.0	-46.4	-46.7	-47.1	-47.9	-48.0	

Mobile services - narrowband (12.5 kHz)FM system. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
M1	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile services - narrowband (12.5 kHz)FM system. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
M2	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

UHF satellite, space to earth, above 240 MHz. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
NO	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Paging - low power, local area (49 to 49.5 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
PA	48.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile services - narrowband (12.5 kHz)FM system. No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
RA	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Medical telemetry in Denmark (223 - 225 MHz). No interference to T-DAB (10 mW e.r.p.)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
R1	58.0	10.0

Δ f (MHz)	-0.8	0.0	0.8								
PR (dB)	-66.0	-66.0	-66.0								

Mobile service - remote control (223 - 225 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
R3	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.94
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile service - remote control (223 - 225 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
R4	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Wideband FM sound mono		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
S1	58.0	10.0

Δ f (MHz)	-1.3	-1.2	-1.1	-1.0	-0.9	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4
PR (dB)	-45.1	-43.9	-38.4	-37.5	-28.9	-12.9	-4.9	-1.0	2.1	3.5	4.3
Δ f (MHz)	-0.3	-0.2	-0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
PR (dB)	4.1	4.4	4.1	4.0	4.1	4.4	4.1	4.3	3.5	2.1	-1.0
Δ f (MHz)	0.8	0.8	0.9	1.0	1.1	1.2	1.3				
PR (dB)	-4.9	-12.9	-28.9	-37.5	-38.4	-43.9	-45.1				

Wideband FM sound stereo		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
S2	58.0	10.0

Δ f (MHz)	-1.3	-1.2	-1.1	-1.0	-0.9	-0.8	-0.8	-0.7	-0.6	-0.5	-0.4
PR (dB)	-45.1	-43.9	-38.4	-37.5	-28.9	-12.9	-4.9	-1.0	2.1	3.5	4.3
Δ f (MHz)	-0.3	-0.2	-0.1	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
PR (dB)	4.1	4.4	4.1	4.0	4.1	4.4	4.1	4.3	3.5	2.1	-1.0
Δ f (MHz)	0.8	0.8	0.9	1.0	1.1	1.2	1.3				
PR (dB)	-4.9	-12.9	-28.9	-37.5	-38.4	-43.9	-45.1				

I/PAL (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TA	48.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-42.0	-23.5	-10.0	-3.0	-2.0	-3.0	-24.0	-21.0	-23.0	-31.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.0	-28.5	-25.0	-19.5	-17.5	-11.0	-7.0	-1.5	-1.5	-4.0	-5.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-13.5	-17.0	-20.0	-33.0	-47.5						

B/PAL (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TB	48.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

D/SECAM, K/SECAM (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TC	48.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-47.0	-42.5	-3.0	-2.5	-3.0	-37.5	-21.5	-18.5	-20.5	-26.5	-33.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-31.5	-29.0	-26.5	-18.5	-16.5	-9.0	-6.0	-3.0	-2.5	-4.0	-4.5
Δ f (MHz)	0.8	0.9	1.0	2.0							
PR (dB)	-12.0	-22.0	-25.0	-46.0							

L/SECAM (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TD	48.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-46.5	-42.5	-15.5	-13.0	-15.0	-26.5	-18.5	-17.0	-18.0	-23.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.5	-27.5	-24.5	-18.0	-16.5	-8.0	-5.0	-1.5	1.5	-2.0	-3.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-12.5	-18.5	-19.0	-31.0	-46.8						

B/SECAM (Band I). B/PAL (T2) data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TE	48.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

D/PAL (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TF	48.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-47.0	-42.5	-3.0	-2.5	-3.0	-37.5	-21.5	-20.0	-22.0	-31.5	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-29.0	-26.5	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0
Δ f (MHz)	0.8	0.9	1.0	2.0							
PR (dB)	-12.0	-16.0	-19.0	-45.3							

B/PAL (FM+Nicam) (Band I)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band I**	**Transmit antenna height (m)**
TG	48.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

I/PAL (Band III)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
T1	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-42.0	-23.5	-10.0	-3.0	-2.0	-3.0	-24.0	-21.0	-23.0	-31.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.0	-28.5	-25.0	-19.5	-17.5	-11.0	-7.0	-1.5	-1.5	-4.0	-5.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-13.5	-17.0	-20.0	-33.0	-47.5						

B/PAL (Band III)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
T2	58.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

D/SECAM, K/SECAM (Band III)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
T3	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-47.0	-42.5	-3.0	-2.5	-3.0	-37.5	-21.5	-18.5	-20.5	-26.5	-33.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-31.5	-29.0	-26.5	-18.5	-16.5	-9.0	-6.0	-3.0	-2.5	-4.0	-4.5
Δ f (MHz)	0.8	0.9	1.0	2.0							
PR (dB)	-12.0	-22.0	-25.0	-46.0							

L/SECAM (Band III)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
T4	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-46.5	-42.5	-15.5	-13.0	-15.0	-26.5	-18.5	-17.0	-18.0	-23.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.5	-27.5	-24.5	-18.0	-16.5	-8.0	-5.0	-1.5	1.5	-2.0	-3.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-12.5	-18.5	-19.0	-31.0	-46.8						

B/SECAM (Band III). B/PAL (T2) data used		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
T5	58.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

D/PAL (Band III)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
T6	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-47.0	-42.5	-3.0	-2.5	-3.0	-37.5	-21.5	-20.0	-22.0	-31.5	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-29.0	-26.5	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0
Δ f (MHz)	0.8	0.9	1.0	2.0							
PR (dB)	-12.0	-16.0	-19.0	-45.3							

B/PAL (FM+Nicam) (Band III)		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
T7	58.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

PMR (5 kHz channel spacing). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
XA	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Finnish Alarm System, 230 to 231 MHz (Block 13A). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
XB	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system (aeronautical frequencies). No information		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
XE	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Radio microphones (VHF). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
XM	58.0	10.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Video link		
Service identifier	**Field strength to be protected in dB(µV/m) for Band III**	**Transmit antenna height (m)**
YB	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-42.0	-23.5	-10.0	-3.0	-2.0	-3.0	-24.0	-21.0	-23.0	-31.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.0	-28.5	-25.0	-19.5	-17.5	-11.0	-7.0	-1.5	-1.5	-4.0	-5.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-13.5	-17.0	-20.0	-33.0	-47.5						

Military air-ground-air system, frequency hopping (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YC	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system, frequency hopping (230 - 243 MHz). No information, CW interference data used		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YD	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Mobile Navy (aircraft) service (230 - 243 MHz). New type		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YE	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

Distress frequency 243 MHz. New type		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YG	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

Audio link special		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YH	58.0	5000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-66.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-66.0

Military air-ground-air system, frequency hopping (230 - 243 MHz). No information, CW interference data used (as YC)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YT	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

Military air-ground-air system, frequency hopping (230 - 243 MHz). No information, CW interference data used (as YC)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YW	58.0	10000.0

Δ f (MHz)	-0.9	-0.8	-0.6	-0.4	-0.2	0.0	0.2	0.4	0.6	0.8	0.9
PR (dB)	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0

L/SECAM (SNCF)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YX	58.0	10.0

Δ f (MHz)	-8.0	-7.5	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
PR (dB)	-46.5	-42.5	-15.5	-13.0	-15.0	-26.5	-18.5	-17.0	-18.0	-23.0	-31.5
Δ f (MHz)	-2.5	-2.0	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7
PR (dB)	-30.5	-27.5	-24.5	-18.0	-16.5	-8.0	-5.0	-1.5	1.5	-2.0	-3.5
Δ f (MHz)	0.8	0.9	1.0	2.0	3.0						
PR (dB)	-12.5	-18.5	-19.0	-31.0	-46.8						

New type DGPT		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YY	58.0	10.0

Δ f (MHz)	-2.0	-1.5	-1.0	-0.9	-0.8	0.0	0.8	0.9	1.0	1.5	2.0
PR (dB)	-60.0	-46.5	-13.3	-3.8	17.0	17.0	17.0	-3.8	-13.3	-46.5	-60.0

B/PAL (DGPT)		
Service identifier	**Field strength to be protected in dB(μV/m) for Band III**	**Transmit antenna height (m)**
YZ	58.0	10.0

Δ f (MHz)	-7.0	-6.5	-6.0	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0	-2.5	-2.0
PR (dB)	-47.0	-18.0	-5.0	-3.0	-5.0	-20.0	-22.0	-31.5	-31.5	-29.0	-26.5
Δ f (MHz)	-1.5	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.6	0.7	0.8	0.9
PR (dB)	-23.0	-18.5	-16.0	-9.0	-5.0	-3.0	-0.5	-3.0	-4.0	-12.0	-16.0
Δ f (MHz)	1.0	2.0									
PR (dB)	-19.5	-45.3									

Where no information concerning protection ratios for T-DAB suffering interference from other services has been supplied to the Planning Meeting, the administrations concerned should develop appropriate sharing criteria by mutual agreement. When available one could use the relevant ITU-R Recommendations or ECC and ERC Decisions and Recommendations..

4.2.2 Other services interfered with by T-DAB

The maximum allowable field strength of an interfering signal (FS_I) to protect the minimum wanted field strength of an other service ($FS_{other\ service}$) is calculated as follows:

$$\text{Max. allowable } FS_I = (FS_{other\ service} - PR)\ dB(\mu V/m)$$

or where the other service is television broadcasting:

$$\text{Max. allowable } FS_I \text{ for tropospheric interference} = (FS_{other\ service} - PR_{1\%\ time})\ dB(\mu V/m);$$
$$\text{Max. allowable } FS_I \text{ for continuous interference} = (FS_{other\ service} - PR_{50\%\ time})\ dB(\mu V/m).$$

Note: Where relevant, receiving antenna directivity or polarization discrimination must be taken into account.
The required separation distance is given where known.

The following tables contain the field strength to be protected, the protection ratio values used in the calculations and the maximum permitted field strength values derived from those values. .

The service information is shown as follows, for example:

Aeronautical safety service 1			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
AL	26.0	10000.0	1000.0

where

- **AL** is the service identifier;
- **26.0** is the other service field strength to be protected in dB(µV/m);
- **10000.0** is the other service receiver height in metres to be used if it is mobile;
- **1000.0** is the required separation distance in metres, where known.

The columns in the table have the following meaning:

Δ f (MHz)	-2.500	-2.000	-1.500	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.630
PR (dB) 1%	-0.1	3.8	21.0	32.0	39.8	43.0	39.5	37.3	39.3	38.0	24.5
PR (dB) 50%	5.9	10.3	25.5	38.0	46.8	48.3	44.3	41.8	45.5	42.5	30.0
dB (µV/m) 1%	48.1	44.2	27.0	16.0	8.2	5.0	8.5	10.7	8.7	10.0	23.5
dB (µV/m) 50%	42.1	37.7	22.5	10.0	1.2	-0.3	3.7	6.2	2.5	5.5	18.0

where

- **-2.500** is the frequency difference in MHz, i.e .the interfering T-DAB block centre frequency minus the centre frequency of the other service suffering interference;*
- **-0.1** is the protection ratio in dB required for tropospheric interference;
- **5.9** is the protection ratio in dB required for continuous interference (if known);
- **48.1** is the maximum permitted 1% time T-DAB field strength in dB(µV/m) in the other service coverage area;
- **42.1** is the maximum permitted 50% time T-DAB field strength in dB(µV/m) in the other service coverage area (specified only in the case of a TV signal suffering interference).

* In the case of a TV signal suffering interference the vision carrier frequency has to be taken instead of the centre frequency of the TV channel.

Aeronautical safety service 1			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
AL	26.0	10000.0	1000.0

Δ f (MHz)	-10.000	-9.000	-0.800	-0.600	-0.400	-0.200	0.000	0.200	0.400	0.600	0.800
PR (dB) 1%	-66.0	-6.6	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6
dB (µV/m) 1%	92.0	32.6	32.6	23.3	22.8	21.9	19.5	21.9	22.8	23.3	32.6
Δ f (MHz)	9.000	10.000									
PR (dB) 1%	-6.6	-66.0									
dB (µV/m) 1%	32.6	92.0									

CZE service, values used as for PMR (5 kHz channel spacing)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
CA	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Aeronautical safety service 2; Type A receiver. First channel 230.05 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
DA	26.0	10000.0	1000.0

Δ f (MHz)	-10.20	-6.550	-6.350	-6.150	-5.930	-5.770	0.000	10.000			
PR (dB) 1%	-56.0	-56.0	-54.0	-49.0	-33.0	6.0	6.0	6.0			
dB (µV/m) 1%	82.0	82.0	80.0	75.0	59.0	20.0	20.0	20.0			

Aeronautical safety service (Germany); DB. The centre frequency is 235.0 MHz and the first channel is at 231.0 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
DB	26.0	10000.0	1000.0

Δ f (MHz)	-5.250	-4.470	-4.270	0.000	9.770	9.970	10.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (µV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Military tactical distance measuring system (DME) Sweden (236 MHz)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
H1	73.0	500.0	

Δ f (MHz)	-0.700	-0.500	0.000	0.500	0.700						
PR (dB) 1%	-60.0	6.0	6.0	6.0	-60.0						
dB (µV/m) 1%	133.0	67.0	67.0	67.0	133.0						

Military tactical distance measuring system (DME) Sweden (241 MHz)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
H2	53.0	10000.0	1000.0

Δ f (MHz)	-2.700	-0.500	0.000	0.500	2.700						
PR (dB) 1%	-60.0	6.0	6.0	6.0	-60.0						
dB (µV/m) 1%	113.0	47.0	47.0	47.0	113.0						

Military tactical distance measuring system (DME) Sweden (238.5 MHz); transmit only			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
H3	53.0	10.0	

Δ f (MHz)	-0.900	-0.800	-0.600	-0.400	-0.200	0.000	0.200	0.400	0.600	0.800	0.900
PR (dB) 1%	-60.0	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6	-60.0
dB (µV/m) 1%	113.0	59.6	50.3	49.8	48.9	46.5	48.9	49.8	50.3	59.6	113.0

Mobile Navy service in Sweden (233.1 MHz, 233.2 MHz, 233.3 MHz)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
H4	48.0	5.0	

Δ f (MHz)	-0.140	0.000	0.140								
PR (dB) 1%	-60.0	-10.0	-60.0								
dB (µV/m) 1%	108.0	58.0	108.0								

Italian service (224.25 MHz). S1 (WB FM mono) data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
IA	48.0	10.0	

Δ f (MHz)	-1.00	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-22.0	-16.0	18.0	18.0	18.0	-16.0	-22.0				
dB (µV/m) 1%	70.0	64.0	30.0	30.0	30.0	64.0	70.0				

Land mobile service (173 - 174 MHz, Germany and the Netherlands). Not applicable in general Centre frequency 173.95 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MA	4.0	10.0	

Δ f (MHz)	-1.000	-0.900	0.000	0.900	1.000						
PR (dB) 1%	-60.0	-40.0	12.0	-40.0	-60.0						
dB (µV/m) 1%	64.0	44.0	-8.0	44.0	64.0						

Military narrowband FM system, analogue (47 - 68 MHz). M2 values used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MB	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Military narrowband FM system, digital (47 - 68 MHz). M2 values used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MC	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Military narrowband FM system, frequency hopping (47 - 68 MHz). M2 values used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MD	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Military air-ground-air system, analogue (type B and C receivers). Minimum separation distance is 1 km. Frequency range is 230 to just above 240 MHz, but channel frequencies are not identical in all countries			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
ME	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (µV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Military air-ground-air system, digital (230 - 243 MHz). ME data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MF	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (µV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Military air-ground-air system, frequency hopping (230 - 243 MHz). ME data used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MG	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (μV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Mobile Navy service, analogue (230 - 243 MHz). ME data used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MI	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (μV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Mobile Navy service, digital (230 - 243 MHz). ME data used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MJ	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (μV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Mobile Navy service, frequency hopping (230 - 243 MHz). ME data used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MK	26.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.770	0.000	0.770	0.970	1.750				
PR (dB) 1%	-81.0	-46.0	-1.0	-1.0	-1.0	-46.0	-81.0				
dB (μV/m) 1%	107.0	72.0	27.0	27.0	27.0	72.0	107.0				

Military fixed services (230 - 243 MHz). MT values used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
ML	20.0	10.0	

Δ f (MHz)	-2.000	-1.000	0.000	1.000	2.000						
PR (dB) 1%	-5.0	15.0	25.0	15.0	-5.0						
dB (μV/m) 1%	25.0	5.0	-5.0	5.0	25.0						

Distress frequency 243 MHz			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MN	26.0	10.0	

Δ f (MHz)	-0.800	0.000	0.800								
PR (dB) 1%	-60.0	-60.0	-60.0								
dB (μV/m) 1%	86.0	86.0	86.0								

Military mobile service. Centre frequency 232.625 MHz			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
MQ	26.0	10000.0	1000.0

Δ f (MHz)	-2.63	-2.625	0.000	2.625	2.630						
PR (dB) 1%	-60.0	-1.0	-1.0	-1.0	-60.0						
dB (μV/m) 1%	86.0	27.0	27.0	27.0	86.0						

Military mobile service. Centre frequency 242.5 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MR	26.0	10000.0	1000.0

Δ f (MHz)	-2.510	-2.500	0.000	2.500	2.510						
PR (dB) 1%	-60.0	-1.0	-1.0	-1.0	-60.0						
dB (µV/m) 1%	86.0	27.0	27.0	27.0	86.0						

Military Mobile and Fixed (tactical) services			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MT	20.0	10.0	

Δ f (MHz)	-2.000	-1.000	0.000	1.000	2.000						
PR (dB) 1%	-5.0	15.0	25.0	15.0	-5.0						
dB (µV/m) 1%	25.0	5.0	-5.0	5.0	25.0						

Mobile radio - low power devices. Wideband FM (stereo) data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
MU	54.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-12.0	5.0	38.0	38.0	38.0	5.0	-12.0				
dB (µV/m) 1%	66.0	49.0	16.0	16.0	16.0	49.0	66.0				

Mobile services - narrowband FM system (12.5 kHz) interfered with by a single T-DAB block. T-DAB assumed to be always higher in frequency than PMR. M2 values used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
M1	15.0	10.0	

Δ f (MHz)	-.92	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Narrowband FM system interfered with by two or more T-DAB blocks			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
M2	36.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	94.0	85.0	77.0	73.0	70.0	50.0	48.0	50.0	70.0	73.0	77.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	85.0	94.0									

UHF satellite, space to earth, above 240 MHz. No information (-60 dB)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
NO	0.0	10.0	

Δ f (MHz)	-0.800	0.000	0.800								
PR (dB) 1%	-60.0	-60.0	-60.0								
dB (µV/m) 1%	60.0	60.0	60.0								

Paging - low power, local area, 49 to 49.5 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
PA	26.0	10.0	

Δ f (MHz)	-0.900	-0.800	0.000	0.800	0.900						
PR (dB) 1%	-43.0	-25.0	-9.0	-25.0	-43.0						
dB (µV/m) 1%	69.0	51.0	35.0	51.0	69.0						

Mobile services - narrowband FM system (12.5 kHz) interfered with by a single T-DAB block. T-DAB assumed to be always higher in frequency than PMR. M2 values used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
RA	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Danish Medical Telemetry Service. Centre frequency 224.1 MHz			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
R1	32.0	10.0	

Δ f (MHz)	-1.800	-1.600	0.000	1.600	1.800						
PR (dB) 1%	-60.0	-6.0	-6.0	-6.0	-60.0						
dB (µV/m) 1%	92.0	38.0	38.0	38.0	92.0						

Mobile service - remote control. Centre frequency is 224 MHz S2 (WB FM stereo) data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
R3	30.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-12.0	5.0	38.0	38.0	38.0	5.0	-12.0				
dB (µV/m) 1%	42.0	25.0	-8.0	-8.0	-8.0	25.0	42.0				

Mobile service - remote control. Centre frequency is 224 MHz. S2 (WB FM stereo) data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
R4	30.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-12.0	5.0	38.0	38.0	38.0	5.0	-12.0				
dB (µV/m) 1%	42.0	25.0	-8.0	-8.0	-8.0	25.0	42.0				

Wideband FM sound mono			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
S1	48.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-22.0	-16.0	18.0	18.0	18.0	-16.0	-22.0				
dB (µV/m) 1%	70.0	64.0	30.0	30.0	30.0	64.0	70.0				

Wideband FM sound stereo			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
S2	54.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-12.0	5.0	38.0	38.0	38.0	5.0	-12.0				
dB (µV/m) 1%	66.0	49.0	16.0	16.0	16.0	49.0	66.0				

I/PAL (Band I)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
TA	48.0	10.0	

Δ f (MHz)	-2.500	-2.000	-1.500	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.630
PR (dB) 1%	-0.1	3.8	21.0	32.0	39.8	43.0	39.5	37.3	39.3	38.0	24.5
PR (dB) 50%	5.9	10.3	25.5	38.0	46.8	48.3	44.3	41.8	45.5	42.5	30.0
dB (µV/m) 1%	48.1	44.2	27.0	16.0	8.2	5.0	8.5	10.7	8.7	10.0	23.5
dB (µV/m) 50%	42.1	37.7	22.5	10.0	1.2	-0.3	3.7	6.2	2.5	5.5	18.0
Δ f (MHz)	5.670	5.890	5.950	6.550	7.200	7.550	7.900				
PR (dB) 1%	25.5	29.7	31.0	31.0	31.0	19.0	-2.0				
PR (dB) 50%	29.1	29.7	31.0	31.0	31.0	19.0	-2.0				
dB (µV/m) 1%	22.5	18.3	17.0	17.0	17.0	29.0	50.0				
dB (µV/m) 50%	18.9	18.3	17.0	17.0	17.0	29.0	50.0				

B/PAL with two FM sound sub-carriers (Band I)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
TB	48.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.740	6.440
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	30.5	32.0	30.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	38.3	40.0	38.0
dB (µV/m) 1%	49.5	18.0	6.0	6.0	11.0	16.0	9.0	9.0	17.5	16.0	18.0
dB (µV/m) 50%	46.2	12.0	0.0	0.0	6.0	12.0	2.7	2.7	9.7	8.0	10.0
Δ f (MHz)	6.490	6.740	7.240								
PR (dB) 1%	27.0	1.0	0.2								
PR (dB) 50%	35.0	9.0	7.7								
dB (µV/m) 1%	21.0	47.0	47.8								
dB (µV/m) 50%	13.0	39.0	40.3								

D/SECAM (Band I). Sound-to- vision power ratio is -10 dB as requested by Hungary and Poland			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
TC	48.0	10.0	

Δ f (MHz)	-2.350	-2.000	-1.500	-1.000	-0.500	0.000	0.500	1.000	1.500	2.000	2.500
PR (dB) 1%	-0.1	8.6	18.0	29.8	36.5	42.3	42.0	42.1	40.8	37.7	33.6
PR (dB) 50%	9.9	18.6	28.0	36.8	43.5	49.3	49.0	49.1	47.8	44.7	40.6
dB (µV/m) 1%	48.1	39.4	30.0	18.2	11.5	5.7	6.0	5.9	7.2	10.3	14.4
dB (µV/m) 50%	38.1	29.4	20.0	11.2	4.5	-1.3	-1.0	-1.1	0.2	3.3	7.4
Δ f (MHz)	3.000	3.500	4.000	4.500	5.000	5.500	5.850	6.000	6.500	7.200	7.250
PR (dB) 1%	31.6	33.7	38.1	38.6	37.2	28.5	20.2	20.7	22.0	20.0	17.0
PR (dB) 50%	38.6	40.7	45.1	45.6	44.2	35.5	28.1	28.6	30.0	28.0	25.0
dB (µV/m) 1%	16.4	14.3	9.9	9.4	10.8	19.5	27.8	27.3	26.0	28.0	31.0
dB (µV/m) 50%	9.4	7.3	2.9	2.4	3.8	12.5	19.9	19.4	18.0	20.0	23.0
Δ f (MHz)	7.430										
PR (dB) 1%	0.6										
PR (dB) 50%	10.0										
dB (µV/m) 1%	47.4										
dB (µV/m) 50%	38.0										

L/SECAM (Band I)			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
TD	48.0	10.0	

Δ f (MHz)	-2.400	-2.000	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.500	5.750
PR (dB) 1%	0.0	6.0	28.0	38.0	39.0	35.0	32.0	34.0	33.0	32.0	42.0
PR (dB) 50%	7.0	13.0	32.0	42.0	44.0	39.0	36.0	38.0	37.0	34.0	50.0
dB (μV/m) 1%	48.0	42.0	20.0	10.0	9.0	13.0	16.0	14.0	15.0	16.0	6.0
dB (μV/m) 50%	41.0	35.0	16.0	6.0	4.0	9.0	12.0	10.0	11.0	14.0	-2.0
Δ f (MHz)	6.000	7.000	7.250	7.900							
PR (dB) 1%	42.0	42.0	42.0	0.0							
PR (dB) 50%	50.0	50.0	50.0	8.0							
dB (μV/m) 1%	6.0	6.0	6.0	48.0							
dB (μV/m) 50%	-2.0	-2.0	-2.0	40.0							

B/SECAM (Band I). B/PAL data used			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
TE	48.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.740	6.440
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	30.5	32.0	30.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	38.3	40.0	38.0
dB (μV/m) 1%	49.5	18.0	6.0	6.0	11.0	16.0	9.0	9.0	17.5	16.0	18.0
dB (μV/m) 50%	46.2	12.0	0.0	0.0	6.0	12.0	2.7	2.7	9.7	8.0	10.0
Δ f (MHz)	6.490	6.740	7.240								
PR (dB) 1%	27.0	1.0	0.2								
PR (dB) 50%	35.0	9.0	7.7								
dB (μV/m) 1%	21.0	47.0	47.8								
dB (μV/m) 50%	13.0	39.0	40.3								

D/PAL (Band I)			
Service identifier	**Field strength to be protected in dB(μV/m)**	**Receiver height (m)**	**Separation distance (m)**
TF	48.0	10.0	

Δ f (MHz)	-2.350	-2.000	-1.500	-1.000	-0.500	0.000	0.500	1.000	1.500	2.000	2.500
PR (dB) 1%	-0.1	8.6	18.0	29.8	36.5	42.3	42.0	42.1	40.8	37.7	33.6
PR (dB) 50%	9.9	18.6	28.0	36.8	43.5	49.3	49.0	49.1	47.8	44.7	40.6
dB (μV/m) 1%	48.1	39.4	30.0	18.2	11.5	5.7	6.0	5.9	7.2	10.3	14.4
dB (μV/m) 50%	38.1	29.4	20.0	11.2	4.5	-1.3	-1.0	-1.1	0.2	3.3	7.4
Δ f (MHz)	3.000	3.500	4.000	4.500	5.000	5.500	5.850	6.000	6.500	7.200	7.250
PR (dB) 1%	31.6	33.7	38.1	38.6	37.2	28.5	20.2	20.7	22.0	20.0	17.0
PR (dB) 50%	38.6	40.7	45.1	45.6	44.2	35.5	28.1	28.6	30.0	28.0	25.0
dB (μV/m) 1%	16.4	14.3	9.9	9.4	10.8	19.5	27.8	27.3	26.0	28.0	31.0
dB (μV/m) 50%	9.4	7.3	2.9	2.4	3.8	12.5	19.9	19.4	18.0	20.0	23.0
Δ f (MHz)	7.430										
PR (dB) 1%	0.6										
PR (dB) 50%	10.0										
dB (μV/m) 1%	47.4										
dB (μV/m) 50%	38.0										

B/PAL (FM+Nicam) (Band I)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
TG	48.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.300	5.500
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	31.0	31.0	31.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	36.8	32.6	33.0
dB (µV/m) 1%	49.5	18.0	6.0	6.0	11.0	16.0	9.0	9.0	17.0	17.0	17.0
dB (µV/m) 50%	46.2	12.0	0.0	0.0	6.0	12.0	2.7	2.7	11.2	15.4	15.0
Δ f (MHz)	6.200	6.450	6.850	7.250							
PR (dB) 1%	31.0	31.0	19.0	-5.0							
PR (dB) 50%	31.0	31.0	19.0	-5.0							
dB (µV/m) 1%	17.0	17.0	29.0	53.0							
dB (µV/m) 50%	17.0	17.0	29.0	53.0							

I/PAL (Band III)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T1	55.0	10.0	

Δ f (MHz)	-2.500	-2.000	-1.500	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.630
PR (dB) 1%	-0.1	3.8	21.0	32.0	39.8	43.0	39.5	37.3	39.3	38.0	24.5
PR (dB) 50%	5.9	10.3	25.5	38.0	46.8	48.3	44.3	41.8	45.5	42.5	30.0
dB (µV/m) 1%	55.1	51.2	34.0	23.0	15.2	12.0	15.5	17.7	15.7	17.0	30.5
dB (µV/m) 50%	49.1	44.7	29.5	17.0	8.2	6.7	10.7	13.2	9.5	12.5	25.0
Δ f (MHz)	5.670	5.890	5.950	6.550	7.200	7.550	7.900				
PR (dB) 1%	25.5	29.7	31.0	31.0	31.0	19.0	-2.0				
PR (dB) 50%	29.1	29.7	31.0	31.0	31.0	19.0	-2.0				
dB (µV/m) 1%	29.5	25.3	24.0	24.0	24.0	36.0	57.0				
dB (µV/m) 50%	25.9	25.3	24.0	24.0	24.0	36.0	57.0				

B/PAL with two FM sound sub-carriers (Band III)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T2	55.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.740	6.440
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	30.5	32.0	30.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	38.3	40.0	38.0
dB (µV/m) 1%	56.5	25.0	13.0	13.0	18.0	23.0	16.0	16.0	24.5	23.0	25.0
dB (µV/m) 50%	53.2	19.0	7.0	7.0	13.0	19.0	9.7	9.7	16.7	15.0	17.0
Δ f (MHz)	6.490	6.740	7.240								
PR (dB) 1%	27.0	1.0	0.2								
PR (dB) 50%	35.0	9.0	7.7								
dB (µV/m) 1%	28.0	54.0	54.8								
dB (µV/m) 50%	20.0	46.0	47.3								

D/SECAM (Band III). Sound-to-vision power ratio is -10 dB as requested by Hungary and Poland			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T3	55.0	10.0	

Δ f (MHz)	-2.350	-2.000	-1.500	-1.000	-0.500	0.000	0.500	1.000	1.500	2.000	2.500
PR (dB) 1%	-0.1	8.6	18.0	29.8	36.5	42.3	42.0	42.1	40.8	37.7	33.6
PR (dB) 50%	9.9	18.6	28.0	36.8	43.5	49.3	49.0	49.1	47.8	44.7	40.6
dB (µV/m) 1%	55.1	46.4	37.0	25.2	18.5	12.7	13.0	12.9	14.2	17.3	21.4
dB (µV/m) 50%	45.1	36.4	27.0	18.2	11.5	5.7	6.0	5.9	7.2	10.3	14.4
Δ f (MHz)	3.000	3.500	4.000	4.500	5.000	5.500	5.850	6.000	6.500	7.200	7.250
PR (dB) 1%	31.6	33.7	38.1	38.6	37.2	28.5	20.2	20.7	22.0	20.0	17.0
PR (dB) 50%	38.6	40.7	45.1	45.6	44.2	35.5	28.1	28.6	30.0	28.0	25.0
dB (µV/m) 1%	23.4	21.3	16.9	16.4	17.8	26.5	34.8	34.3	33.0	35.0	38.0
dB (µV/m) 50%	16.4	14.3	9.9	9.4	10.8	19.5	26.9	26.4	25.0	27.0	30.0
Δ f (MHz)	7.430										
PR (dB) 1%	0.6										
PR (dB) 50%	10.0										
dB (µV/m) 1%	54.4										
dB (µV/m) 50%	45.0										

L/SECAM (Band III)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T4	55.0	10.0	

Δ f (MHz)	-2.400	-2.000	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.500	5.750
PR (dB) 1%	0.0	6.0	28.0	38.0	39.0	35.0	32.0	34.0	33.0	32.0	42.0
PR (dB) 50%	7.0	13.0	32.0	42.0	44.0	39.0	36.0	38.0	37.0	34.0	50.0
dB (µV/m) 1%	55.0	49.0	27.0	17.0	16.0	20.0	23.0	21.0	22.0	23.0	13.0
dB (µV/m) 50%	48.0	42.0	23.0	13.0	11.0	16.0	19.0	17.0	18.0	21.0	5.0
Δ f (MHz)	6.000	7.000	7.250	7.900							
PR (dB) 1%	42.0	42.0	42.0	0.0							
PR (dB) 50%	50.0	50.0	50.0	8.0							
dB (µV/m) 1%	13.0	13.0	13.0	55.0							
dB (µV/m) 50%	5.0	5.0	5.0	47.0							

B/SECAM (Band III). B/PAL data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T5	55.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.740	6.440
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	30.5	32.0	30.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	38.3	40.0	38.0
dB (µV/m) 1%	56.5	25.0	13.0	13.0	18.0	23.0	16.0	16.0	24.5	23.0	25.0
dB (µV/m) 50%	53.2	19.0	7.0	7.0	13.0	19.0	9.7	9.7	16.7	15.0	17.0
Δ f (MHz)	6.490	6.740	7.240								
PR (dB) 1%	27.0	1.0	0.2								
PR (dB) 50%	35.0	9.0	7.7								
dB (µV/m) 1%	28.0	54.0	54.8								
dB (µV/m) 50%	20.0	46.0	47.3								

D/PAL (Band III)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T6	55.0	10.0	

Δ f (MHz)	-2.350	-2.000	-1.500	-1.000	-0.500	0.000	0.500	1.000	1.500	2.000	2.500
PR (dB) 1%	-0.1	8.6	18.0	29.8	36.5	42.3	42.0	42.1	40.8	37.7	33.6
PR (dB) 50%	9.9	18.6	28.0	36.8	43.5	49.3	49.0	49.1	47.8	44.7	40.6
dB (µV/m) 1%	55.1	46.4	37.0	25.2	18.5	12.7	13.0	12.9	14.2	17.3	21.4
dB (µV/m) 50%	45.1	36.4	27.0	18.2	11.5	5.7	6.0	5.9	7.2	10.3	14.4
Δ f (MHz)	3.000	3.500	4.000	4.500	5.000	5.500	5.850	6.000	6.500	7.200	7.250
PR (dB) 1%	31.6	33.7	38.1	38.6	37.2	28.5	20.2	20.7	22.0	20.0	17.0
PR (dB) 50%	38.6	40.7	45.1	45.6	44.2	35.5	28.1	28.6	30.0	28.0	25.0
dB (µV/m) 1%	23.4	21.3	16.9	16.4	17.8	26.5	34.8	34.3	33.0	35.0	38.0
dB (µV/m) 50%	16.4	14.3	9.9	9.4	10.8	19.5	26.9	26.4	25.0	27.0	30.0
Δ f (MHz)	7.430										
PR (dB) 1%	0.6										
PR (dB) 50%	10.0										
dB (µV/m) 1%	54.4										
dB (µV/m) 50%	45.0										

B/PAL (FM+Nicam) (Band III)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
T7	55.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.300	5.500
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	31.0	31.0	31.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	36.8	32.6	33.0
dB (µV/m) 1%	56.5	25.0	13.0	13.0	18.0	23.0	16.0	16.0	24.0	24.0	24.0
dB (µV/m) 50%	53.2	19.0	7.0	7.0	13.0	19.0	9.7	9.7	18.2	22.4	22.0
Δ f (MHz)	6.200	6.450	6.850	7.250							
PR (dB) 1%	31.0	31.0	19.0	-5.0							
PR (dB) 50%	31.0	31.0	19.0	-5.0							
dB (µV/m) 1%	24.0	24.0	36.0	60.0							
dB (µV/m) 50%	24.0	24.0	36.0	60.0							

PMR (5 kHz channel spacing)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
XA	15.0	10.0	

Δ f (MHz)	-0.920	-0.870	-0.820	-0.795	-0.782	-0.770	0.000	0.770	0.782	0.795	0.820
PR (dB) 1%	-58.0	-49.0	-41.0	-37.0	-34.0	-14.0	-12.0	-14.0	-34.0	-37.0	-41.0
dB (µV/m) 1%	73.0	64.0	56.0	52.0	49.0	29.0	27.0	29.0	49.0	52.0	56.0
Δ f (MHz)	0.870	0.920									
PR (dB) 1%	-49.0	-58.0									
dB (µV/m) 1%	64.0	73.0									

Finnish Alarm System. Frequency range 230 to 231 MHz (Block 13A)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
XB	37.0	10.0	

Δ f (MHz)	-0.600	-0.500	0.000	0.500	0.600						
PR (dB) 1%	-60.0	10.0	10.0	10.0	-60.0						
dB (µV/m) 1%	97.0	27.0	27.0	27.0	97.0						

Military air-ground-air system based on aeronautical blocks. No information (-60 dB)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
XE	0.0	0.0	

Δ f (MHz)	-0.100	0.000	0.100								
PR (dB) 1%	-60.0	-60.0	-60.0								
dB (µV/m) 1%	60.0	60.0	60.0								

Radio microphones (VHF). S1 (WB FM mono) data used			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
XM	48.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-22.0	-16.0	18.0	18.0	18.0	-16.0	-22.0				
dB (µV/m) 1%	70.0	64.0	30.0	30.0	30.0	64.0	70.0				

Audio link (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YA	29.0	10.0	

Δ f (MHz)	-0.900	-0.800	-0.700	0.000	0.700	0.800	0.900				
PR (dB) 1%	-60.0	-6.0	30.0	30.0	30.0	-6.0	-60.0				
dB (µV/m) 1%	89.0	35.0	-1.0	-1.0	-1.0	35.0	89.0				

Video link (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YB	29.0	500.0	

Δ f (MHz)	-13.000	-12.000	0.000	12.000	13.000						
PR (dB) 1%	-46.0	20.0	20.0	20.0	-46.0						
dB (µV/m) 1%	75.0	9.0	9.0	9.0	75.0						

Air-ground-air system 1 (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YC	10.0	10000.0	1000.0

Δ f (MHz)	-1.750	-0.970	-0.930	-0.770	0.770	0.930	0.970	1.750			
PR (dB) 1%	-84.0	-49.0	-40.0	-4.0	-4.0	-40.0	-49.0	-84.0			
dB (µV/m) 1%	94.0	59.0	50.0	14.0	14.0	50.0	59.0	94.0			

Air-ground-air system 2 (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YD	10.0	10000.0	1000.0

Δ f (MHz)	-1.75	-0.970	-0.930	-0.770	0.770	0.930	0.970	1.750			
PR (dB) 1%	-84.	-49.0	-40.0	-4.0	-4.0	-40.0	-49.0	-84.0			
dB (µV/m) 1%	94.0	59.0	50.0	14.0	14.0	50.0	59.0	94.0			

Navy channels (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YE	10.0	10000.0	1000.0

Δ f (MHz)	-1.75	-0.970	-0.930	-0.770	0.770	0.930	0.970	1.750			
PR (dB) 1%	-84.0	-49.0	-40.0	-4.0	-4.0	-40.0	-49.0	-84.0			
dB (µV/m) 1%	94.0	59.0	50.0	14.0	14.0	50.0	59.0	94.0			

Military Mobile and Fixed (tactical) services. Tactical link (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YF	20.0	10.0	

Δ f (MHz)	-2.000	-1.000	0.000	1.000	2.000						
PR (dB) 1%	-5.0	15.0	25.0	15.0	-5.0						
dB (µV/m) 1%	25.0	5.0	-5.0	5.0	25.0						

Safety and distress (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YG	16.0	10000.0	1000.0

Δ f (MHz)	-0.800	-0.600	-0.400	-0.200	0.000	0.200	0.400	0.600	0.800		
PR (dB) 1%	-6.6	2.7	3.2	4.1	6.5	4.1	3.2	2.7	-6.6		
dB (µV/m) 1%	22.6	13.3	12.8	11.9	9.5	11.9	12.8	13.3	22.6		

Audio link (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YH	29.0	5000.0	

Δ f (MHz)	-0.900	-0.800	-0.700	0.700	0.800	0.900					
PR (dB) 1%	-60.0	-6.0	30.0	30.0	-6.0	-60.0					
dB (µV/m) 1%	89.0	35.0	-1.0	-1.0	35.0	89.0					

Telemetry as air-ground-air system 1 (F) YC			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YT	10.0	10000.0	1000.0

Δ f (MHz)	-1.10	-0.970	-0.930	-0.770	0.770	0.930	0.970	1.100			
PR (dB) 1%	-60.0	-49.0	-40.0	-4.0	-4.0	-40.0	-49.0	-60.0			
dB (µV/m) 1%	70.0	59.0	50.0	14.0	14.0	50.0	59.0	70.0			

Telemetry as air-ground-air system 1 (F) YC			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YW	10.0	10000.0	1000.0

Δ f (MHz)	-1.100	-0.970	-0.930	-0.770	0.770	0.930	0.970	1.100			
PR (dB) 1%	-60.0	-49.0	-40.0	-4.0	-4.0	-40.0	-49.0	-60.0			
dB (µV/m) 1%	70.0	59.0	50.0	14.0	14.0	50.0	59.0	70.0			

L/SECAM			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YX	55.0	10.0	

Δ f (MHz)	-2.400	-2.000	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.500	5.750
PR (dB) 1%	0.0	6.0	28.0	38.0	39.0	35.0	32.0	34.0	33.0	32.0	42.0
PR (dB) 50%	7.0	13.0	32.0	42.0	44.0	39.0	36.0	38.0	37.0	34.0	50.0
dB (µV/m) 1%	55.0	49.0	27.0	17.0	16.0	20.0	23.0	21.0	22.0	23.0	13.0
dB (µV/m) 50%	48.0	42.0	23.0	13.0	11.0	16.0	19.0	17.0	18.0	21.0	5.0
Δ f (MHz)	6.000	7.000	7.250	7.500	7.900						
PR (dB) 1%	42.0	42.0	42.0	12.0	0.0						
PR (dB) 50%	50.0	50.0	50.0	20.0	8.0						
dB (µV/m) 1%	13.0	13.0	13.0	43.0	55.0						
dB (µV/m) 50%	5.0	5.0	5.0	35.0	47.0						

Short range system DGPT (F)			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YY	40.0	10.0	

Δ f (MHz)	-1.000	-0.900	-0.800	0.000	0.800	0.900	1.000				
PR (dB) 1%	-22.0	-5.0	28.0	28.0	28.0	-5.0	-22.0				
dB (µV/m) 1%	62.0	45.0	12.0	12.0	12.0	45.0	62.0				

DGPT same as T2 in Band I and not used as TV			
Service identifier	**Field strength to be protected in dB(µV/m)**	**Receiver height (m)**	**Separation distance (m)**
YZ	55.0	10.0	

Δ f (MHz)	-1.900	-1.000	0.000	1.000	2.000	3.000	4.000	5.000	5.200	5.740	6.440
PR (dB) 1%	-1.5	30.0	42.0	42.0	37.0	32.0	39.0	39.0	30.5	32.0	30.0
PR (dB) 50%	1.8	36.0	48.0	48.0	42.0	36.0	45.3	45.3	38.3	40.0	38.0
dB (µV/m) 1%	56.5	25.0	13.0	13.0	18.0	23.0	16.0	16.0	24.5	23.0	25.0
dB (µV/m) 50%	53.2	19.0	7.0	7.0	13.0	19.0	9.7	9.7	16.7	15.0	17.0
Δ f (MHz)	6.490	6.740	7.240								
PR (dB) 1%	27.0	1.0	0.2								
PR (dB) 50%	35.0	9.0	7.7								
dB (µV/m) 1%	28.0	54.0	54.8								
dB (µV/m) 50%	20.0	46.0	47.3								

Where no information concerning protection ratios for other services suffering interference from T-DAB has been supplied to the Planning Meeting, the administrations concerned should develop appropriate sharing criteria by mutual agreement. When available one could use the relevant ITU-R Recommendations or ECC and ERC Decisions and Recommendations,.

5. T-DAB REFERENCE NETWORK

The principles adopted by the CEPT for the introduction of T-DAB allow a reasonable compromise between the density of the transmitters required to support the desired coverage and the potential to re-use the same frequency block with another programme content in other areas.

5.1 Definitions

The **reference point** is the point on the boundary of a Reference Network from which outgoing interference is calculated, see also Figure 5. Incoming interference is calculated at the same point.

In the following text, two distances are defined; see also Figure 4 .

i) The **separation distance** is the distance required between the borders (or peripheries) of two coverage areas served by either T-DAB services or by two different services. There will often be two separation distances, one for each service, because of different field strengths to be protected or because of different protection ratios for the two services. In such cases the longer of these two distances shall be used.

ii) The **transmitter distance** is the distance between adjacent transmitter sites in an SFN.

5.2 T-DAB transmitter network structures

T-DAB networks consist of one of three basic models or combinations thereof:

i) a single transmitter;

ii) a single frequency network (SFN) using non-directional transmitting antennas, also referred to as an "open network";

iii) an SFN using directional transmitting antennas along the periphery of the coverage area, also referred to as a "closed network".

5.3 T-DAB reference single frequency network

5.3.1 Reference network for T-DAB planning

A reference network is a tool for developing appropriate values for separation distances and for estimating how much interference a typical SFN might produce at a given distance.

In interfering field strength calculations the power sum method is used. In the case of mixed land-sea paths, field strengths are first calculated individually for an all-land path and an all-sea path, each of the same distance as the mixed path concerned. A linear interpolation is then performed between the field strengths for all-land and all-sea paths at the required distance from the border of the SFN according to the following formula:

$$E_M = E_L + \frac{d_S}{d_T}(E_S - E_L)$$

where

E_M = field strength for a mixed land-sea path
E_L = field strength for an all-land path
E_S = field strength for an all-sea path
d_S = length of the sea path
d_T = length of the total path.

All field strengths are in dB(μV/m).

In all-sea path calculations it is assumed that the network and its coverage area are on land and that the sea starts from the edge of the coverage area. For land paths a terrain roughness figure Δh of 50 metres is assumed.

5.3.2 Reference network structure

The reference network used for the frequency allotment process is defined as follows (see also Figure 5):

- Hexagonal structure: Closed
- Transmitter distance: 60 km
- Transmitting antenna height: 150 m
- Central transmitter e.r.p: 100 W (Band III), 10 W (Band I)
- Radiation pattern of the central transmitter: Omni-directional
- Peripheral transmitter e.r.p: 1 kW (Band III), 100 W (Band I)
- Radiation pattern of peripheral transmitters: See Figure 6
- Main lobe of directional antennas: In the direction of the central transmitter

When using the field strength prediction method described in the Appendix to this Annex, the reference network produces the required coverage inside the network. The effective wanted field strength on the border of the reference network is about 3 dB higher than the minimum field strength for planning. This makes it possible to allow 3 dB more interference at the edge of the network.

Thus the maximum interfering field strength from another co-channel T-DAB service on the border of the reference network is:

$$E_I^{Max} = E_W^{Min} - PR - PC + 3$$

where

E_I^{Max} = maximum interfering field strength on the border of the reference network
E_W^{Min} = minimum median wanted field strength for planning
PR = protection ratio, in this case 10 dB
PC = propagation correction 18 dB (50% to 99% locations correction factor).

The additional 3 dB margin is not allowed for the other services because during the frequency block allotment procedure each source of interference is considered separately and their power sum is not calculated.

Thus the maximum interfering field strength from any other service on the border of the reference network is:

$$E_I^{Max} = E_W^{Min} - PR - PC$$

where

E_I^{Max} = maximum interfering field strength on the border of the reference network
E_W^{Min} = minimum median wanted field strength for planning
PR = protection ratio, depending on service under consideration
PC = propagation correction 18 dB.

The interfering field strengths for land, cold sea and warm sea paths produced by a reference network are shown in Figures 7a, 7b and 7c. Separation distances for Band III are 81, 142 and 173 km for land, cold sea and warm sea paths respectively.

Where the field strength is calculated within 1 km of the transmitter site location, receiving antenna discrimination should not be taken into account.

5.3.3 Nominal transmitter location for the calculation of potential T-DAB interference to the aeronautical mobile service

The centre of the reference network shall be used as the nominal location for the network to calculate interference to an aeronautical reception test point. In this case the power used for calculations is:

23.8 dBW in Band I

33.8 dBW in Band III

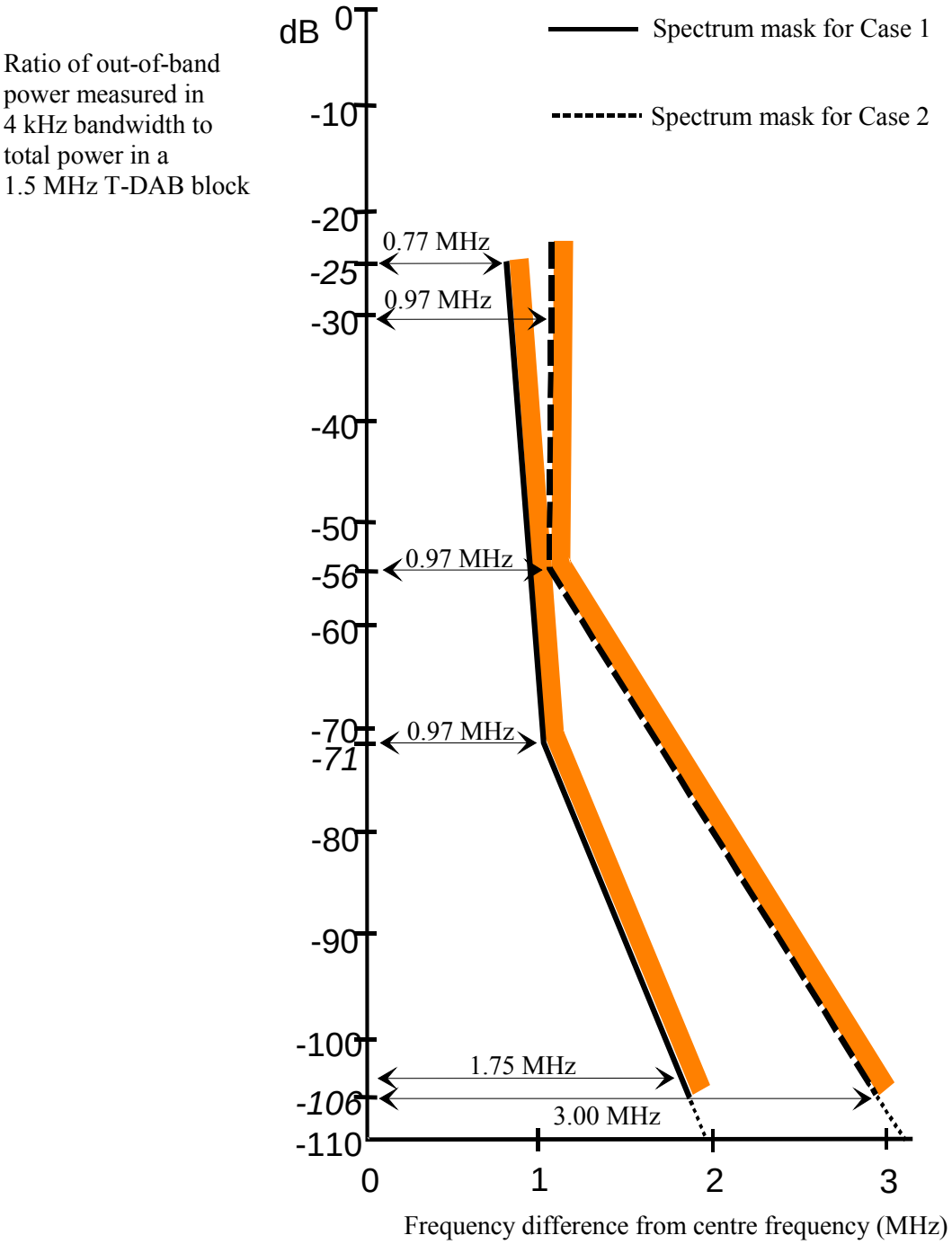


Figure 1: Spectrum masks for T-DAB out-of-band

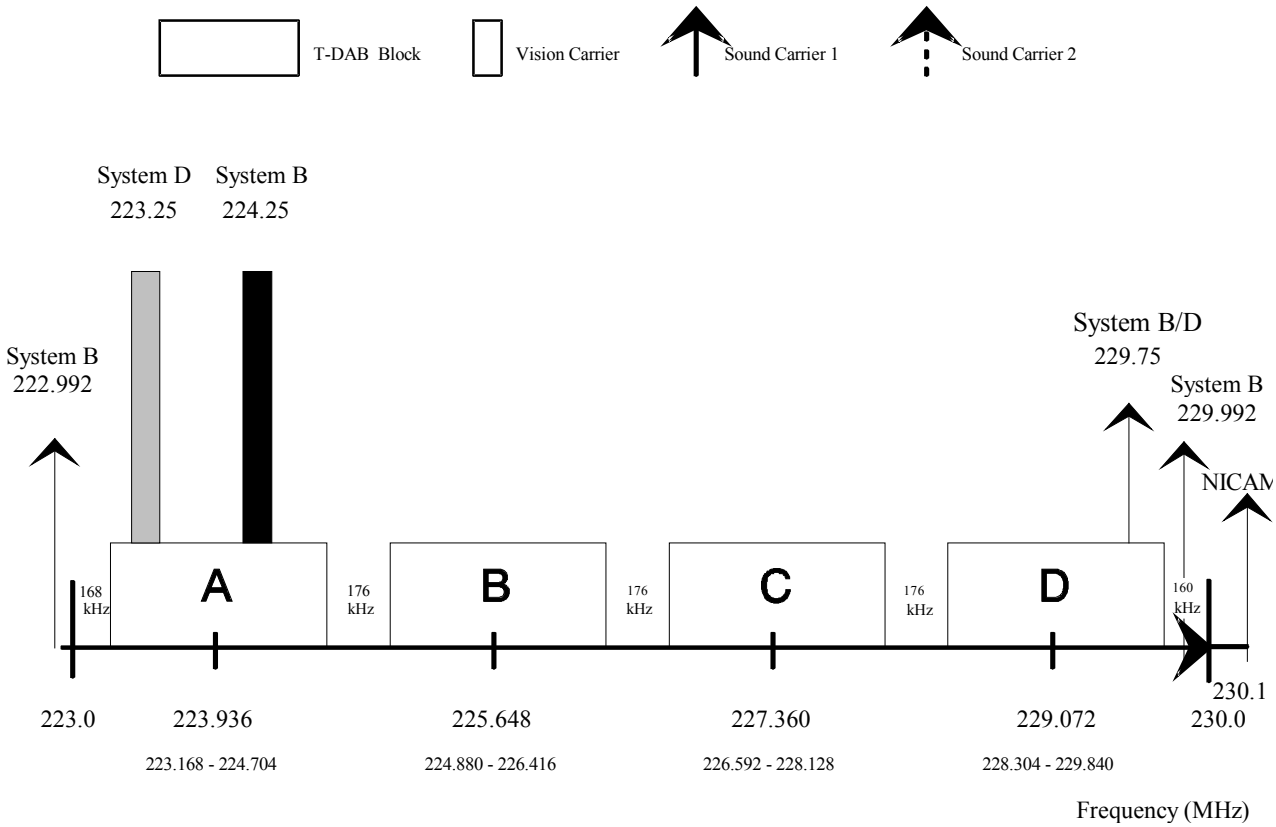


Figure 2: Position of T-DAB blocks in Channel 12

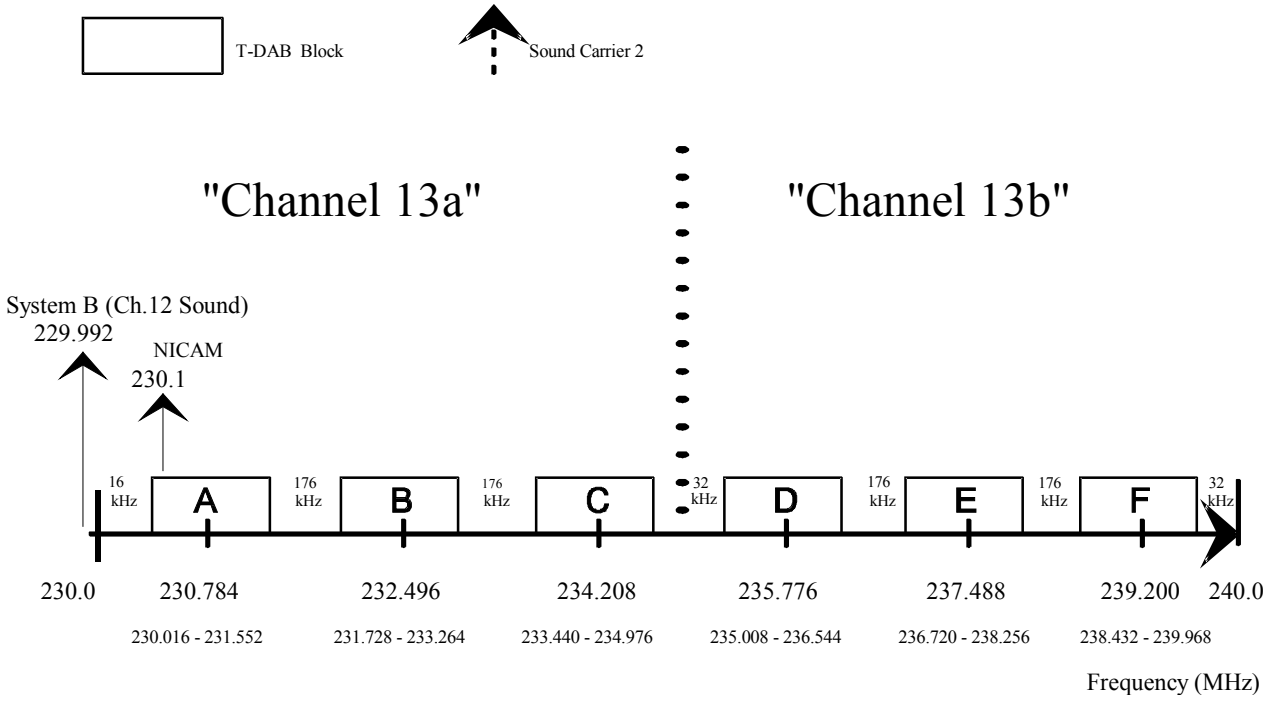


Figure 3: Position of T-DAB blocks in Channel 13

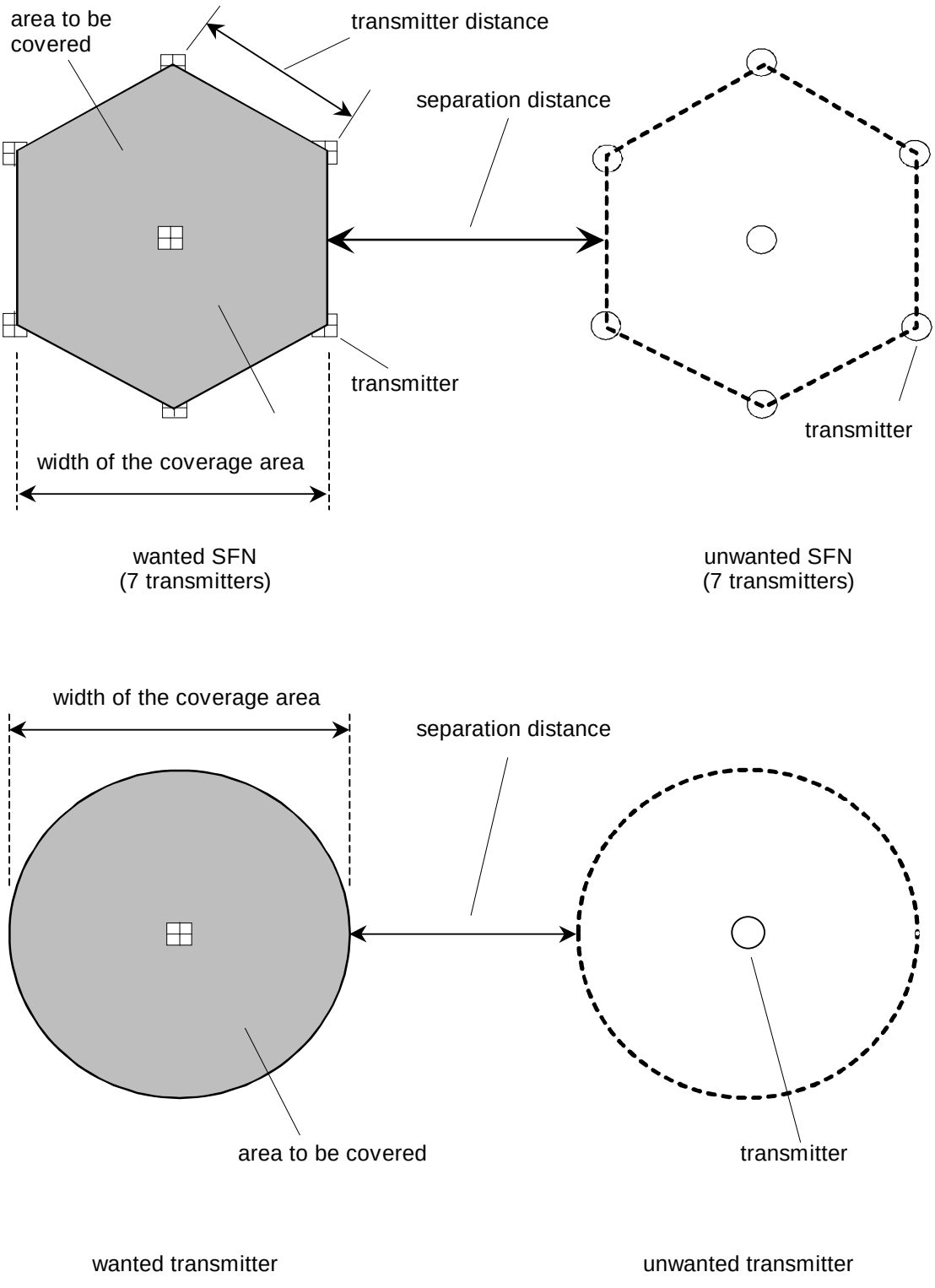


Figure 4: Definition of distances for different network structures (SFN, single transmitter)

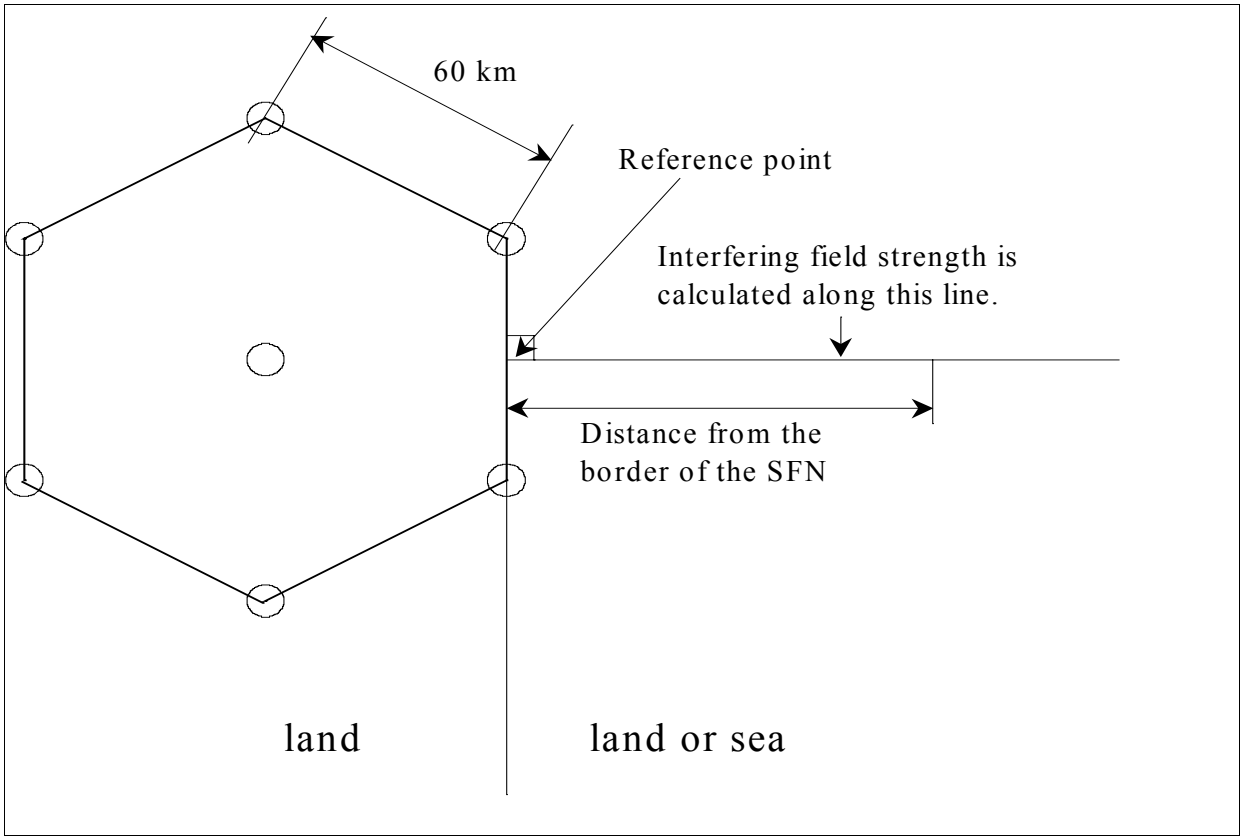


Figure 5: Information related to the interfering field strength calculation for the reference network

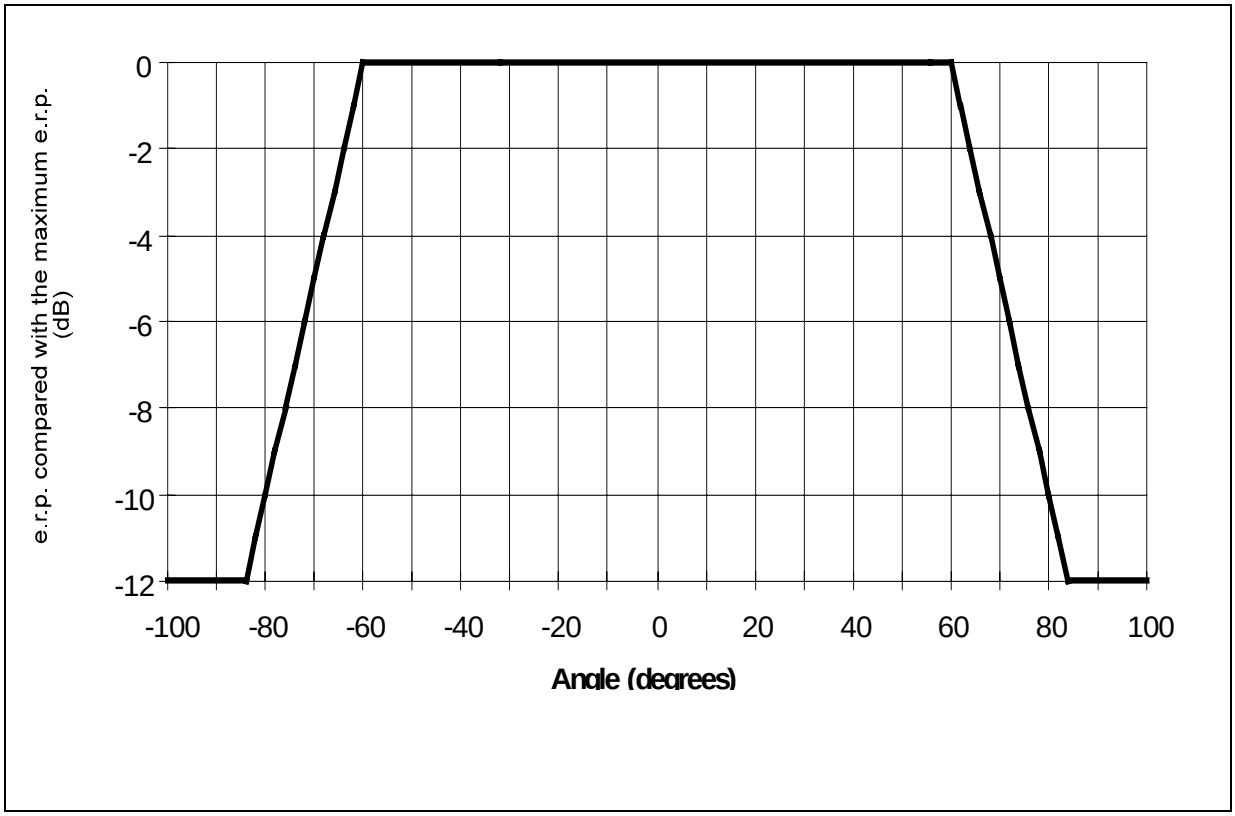


Figure 6: Radiation pattern of the peripheral transmitters

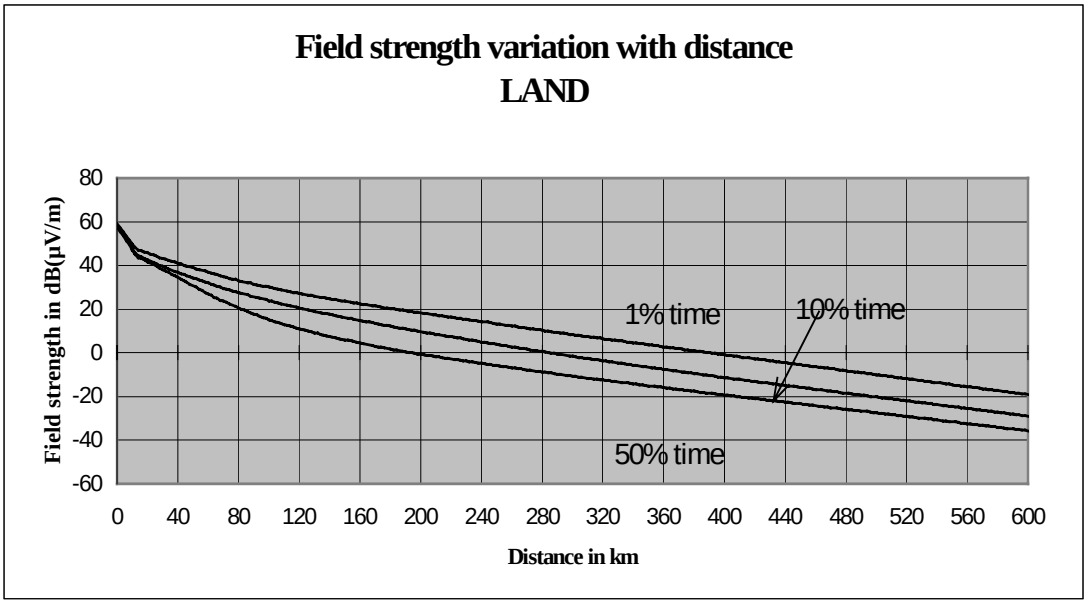


Figure 7a

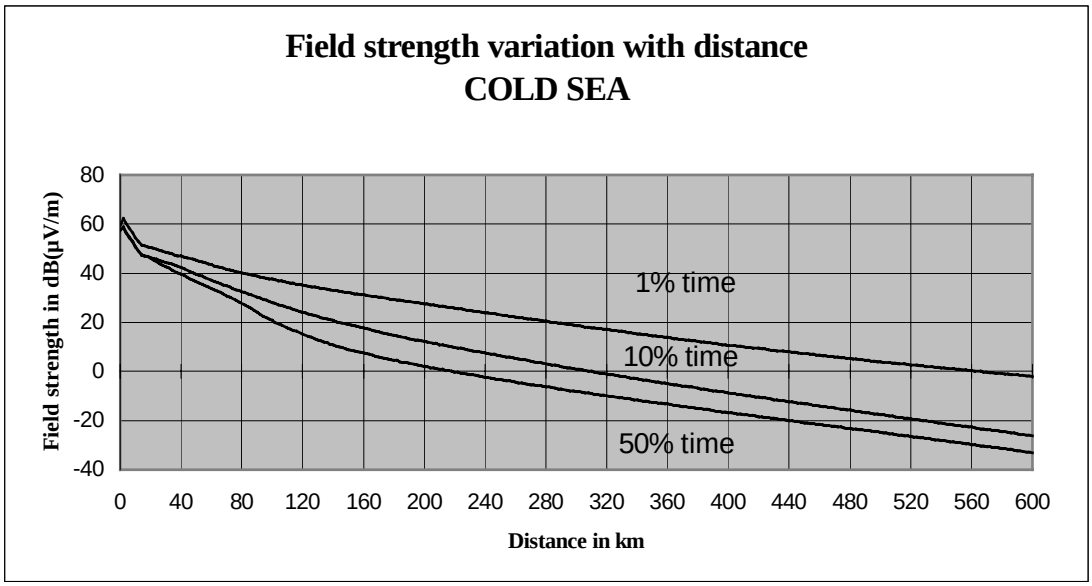


Figure 7b

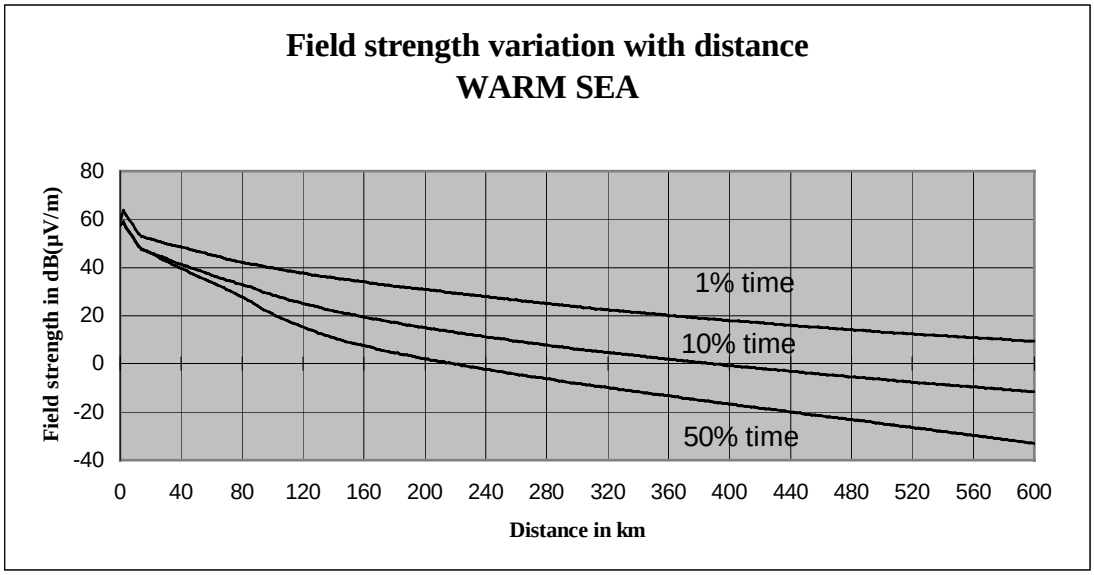


Figure 7c

Figures 7 a, b, c: Interfering field strength produced by the reference network

Appendix

VHF PROPAGATION CURVES FOR THE FREQUENCY RANGE FROM 30 MHz TO 250 MHz

(Based on the former Recommendation ITU-R P.370-7)

1 Introduction

1.1 The propagation curves represent field-strength values in the VHF band as a function of various parameters; some curves refer to land paths, others refer to sea paths. The land path curves were prepared from data obtained mainly from temperate climates as encountered in Europe and North America. The sea path curves were prepared from data obtained mainly from the Mediterranean and the North Sea regions.

1.2 The propagation curves represent the field-strength values exceeded at 50% of the locations (within any area of approximately 200 m by 200 m) for different percentages of time. They correspond to different transmitting antenna heights and a receiving antenna height of 10 m. The land path curves refer to a value of Δh=50 m which generally applies to rolling terrain commonly found in Europe and North America.

1.3 The curves in Figs. 1a, 1b, 2a, 2b, 3a and 3b are given for effective transmitting antenna heights between 37.5 m and 1200 m, each value given of the "effective height" being twice that of the previous one. For an other value of effective height, a linear interpolation between the two curves corresponding to the effective heights immediately above and below the actual value shall be used.

1.3.1 For an effective transmitting antenna height, h_1, in the range 0 to 37.5 m, the field strength at a distance x from the transmitter is taken to be that given on the curve for 37.5 m at a distance of $(x + 25 - 4.1\sqrt{h_1})$ km. This procedure is valid for distances beyond the radio horizon given by $(4.1\sqrt{h_1})$ km. Field strength values for shorter distances are obtained by:

– calculating the difference between the field strength value at the radio horizon for height h_1 (using the procedure given above) and the value on the 37.5 m curve for the same distance;

– subtracting the absolute value of the difference thus obtained from the field strength value on the 37.5 m curve for the actual distance involved.

This may be expressed by the following formulae where E (x, h_1) is the field strength (dB(μV/m)) for a distance x (km) and an effective transmitting antenna height h_1 (m):

$$E(x, h_1) = E\left((x + 25 - 4.1\sqrt{h_1}), 37.5\right) \qquad \text{for } x = (4.1\sqrt{h_1})$$

$$E(x, h_1) = E(x, 37.5) - E\left(4.1\sqrt{h_1}, 37.5\right) + E(25, 37.5) \qquad \text{for } x < (4.1\sqrt{h_1})$$

1.3.2 For an effective transmitting antenna height, h_1, greater than 1200 m, the field strength at a distance x from the transmitter is taken to be that given on the curve for 1 200 m at a distance of $(x + 142 - 4.1\sqrt{h_1})$ km. This procedure is valid for distances beyond the radio horizon, given by $(4.1\sqrt{h_1})$ km. Field strength values for shorter distances are obtained by:

– calculating the difference between the field strength value at the radio horizon for height h_1 (using the procedure given above) and the value on the 1 200 m curve for the same distance;

– adding the absolute value of the difference thus obtained to the field strength value on the 1 200 m curve for the actual distance involved.

This may be expressed as follows:

$$E(x, h_1) = E\left((x + 142 - 4.1\sqrt{h_1}), 1200\right) \qquad \text{for } x = (4.1\sqrt{h_1})$$

$$E(x, h_1) = E(x, 1200) - E\left(4.1\sqrt{h_1}, 1200\right) + E(142, 1200) \qquad \text{for } x < (4.1\sqrt{h_1})$$

This procedure is subject to the limitation that the value obtained does not exceed the free-space value.

1.4 For locations other than 50%, probability distribution curves are presented in Figure 4. For more information on location variability, see section 3.

1.5 Estimates of mixed-path field strengths should be made in accordance with the methods described in section 4.

1.6 The curves in Figures 1a, 1b, 2a, 2b, 3a and 3b are based on long-term values (several years) and may be regarded as representative of the mean climatic conditions prevailing in all the temperate regions. It should be noted, however, that for brief periods of time (e.g. for some hours or even days), field strengths may be obtained which are much higher than those shown by these curves, particularly over relatively flat terrain.

1.7 It is known that the median field strength varies in different climatic regions, and data for a wide range of such conditions in North America and Western Europe show that it is possible to correlate the observed values of median field strength with the refractive index gradient in the first kilometre of the atmosphere above ground level. If n_S and n_1 are the refractive indices at the surface and at a height of 1 km respectively, and if ΔN is defined as $(n_S - n_1)\text{x}10^6$, then in a standard atmosphere, $\Delta N = 40$, the 50% curves refer to this case. If the mean value of ΔN, in a given region, differs appreciably from 40, the appropriate median field strengths for all distances beyond the horizon are obtained by applying a correction factor of 0.5 $(\Delta N - 40)$ dB to the curves. If ΔN is not known, but information concerning the mean value of N_S is available, where $N_S = (n_S - 1)\text{x}10^6$, an alternative correction factor of $0.2(Ns - 310)$ dB may be used, at least for temperate climates. Whilst those corrections have so far only been established for the geographical areas referred to above, they may serve as a guide to the corrections which may be necessary in other geographical areas. The extent to which it is reliable to apply similar corrections to the curves for field strengths exceeded 1% and 10% of the time is not known. It is expected, however, that a large correction will be required for the 1% and 10% values, in regions where super-refraction is prevalent for an appreciable part of the time.

2 Propagation curves

2.1 The curves in Figures 1a and 1b represent field-strength values exceeded at 50% of the locations within any area of approximately 200 m by 200 m and for 50% and 1% of the time for land paths where Δh of 50 m is considered representative. For locations other than 50%, corrections may be obtained from the distribution curve in Figure 4.

2.2 The curves in Figures 2a, 2b, 3a and 3b represent field-strength values exceeded at 50% of the locations for 50% and 1% of the time for sea paths in cold seas and warm seas, the climatic characteristics of those areas being likened to those observed in the North Sea and the Mediterranean, respectively.

2.3 In areas subject to pronounced super-refraction phenomena, account should be taken of the information contained in section 1.7.

2.4 The ionosphere, primarily through the effects of sporadic-E ionisation, can influence propagation in the lower part of the VHF band, particularly at frequencies below about 90 MHz. In some circumstances this mode of propagation may influence the field strength exceeded for small percentages of the time at distances beyond about 500 km, and near the magnetic equator and in the auroral zone higher percentages of the time may be involved. However, these ionospheric effects can usually be ignored in most applications and the propagation curves in Figures 1a, 1b, 2a, 2b, 3a and 3b are based on this assumption.

3 Location variability in area-coverage prediction

Area-coverage prediction methods are intended to provide the statistics of reception conditions over a given area, rather than at any particular point. The interpretation of such statistics will depend on the size of the area considered.

When one terminal of a radio path is stationary, and the other terminal is moved, path loss will vary continuously with location, according to the totality of influences affecting it. It is convenient to classify these influences into three main categories:

– *Multipath variations*
  Signal variations will occur over distances of about a wavelength due to vector addition of signals resulting from multipath effects, e.g. reflections from the ground, buildings, etc.

– *Local ground cover variations*
  Signal variations will occur due to obstruction by ground cover in the local vicinity, e.g. buildings, trees, etc., over distances of about the sizes of such objects. The magnitude of these variations will normally be significantly larger than multipath variations.

– *Path variations*
  Signal variations will also occur due to changes in the geometry of the entire propagation path e.g. the presence of hills, etc. For all except very short paths, the magnitude of these variations will be significantly larger than that of local ground cover variations.

In area-coverage planning, location variability normally refers to the spatial statistics of local ground cover variations, with multipath variations averaged. This approach is useful over distances substantially larger than those over which ground cover variations occur and for which path variations are still insignificant. This may be an impracticable condition for an area over which path geometry is changing rapidly, such as sloping ground.

Location variability is typically quoted for an area of the order of a square of 100-200 m side, sometimes with the additional requirement that the area is flat. The important issue is whether path geometry significantly affects variations over the area concerned.

4 Calculation of mixed paths

When a path includes zones with different propagation characteristics, the following method is to be used:

$$E_{m,t} = \sum_i \frac{d_i}{d_T} E_{i,t}$$

where:

$E_{m,t}$: field strength for mixed path for t% of time

$E_{i,t}$: field strength for path in zone i equal in length to the mixed path for t% of time

d_i : length of path in zone i and

d_T : length of total path.

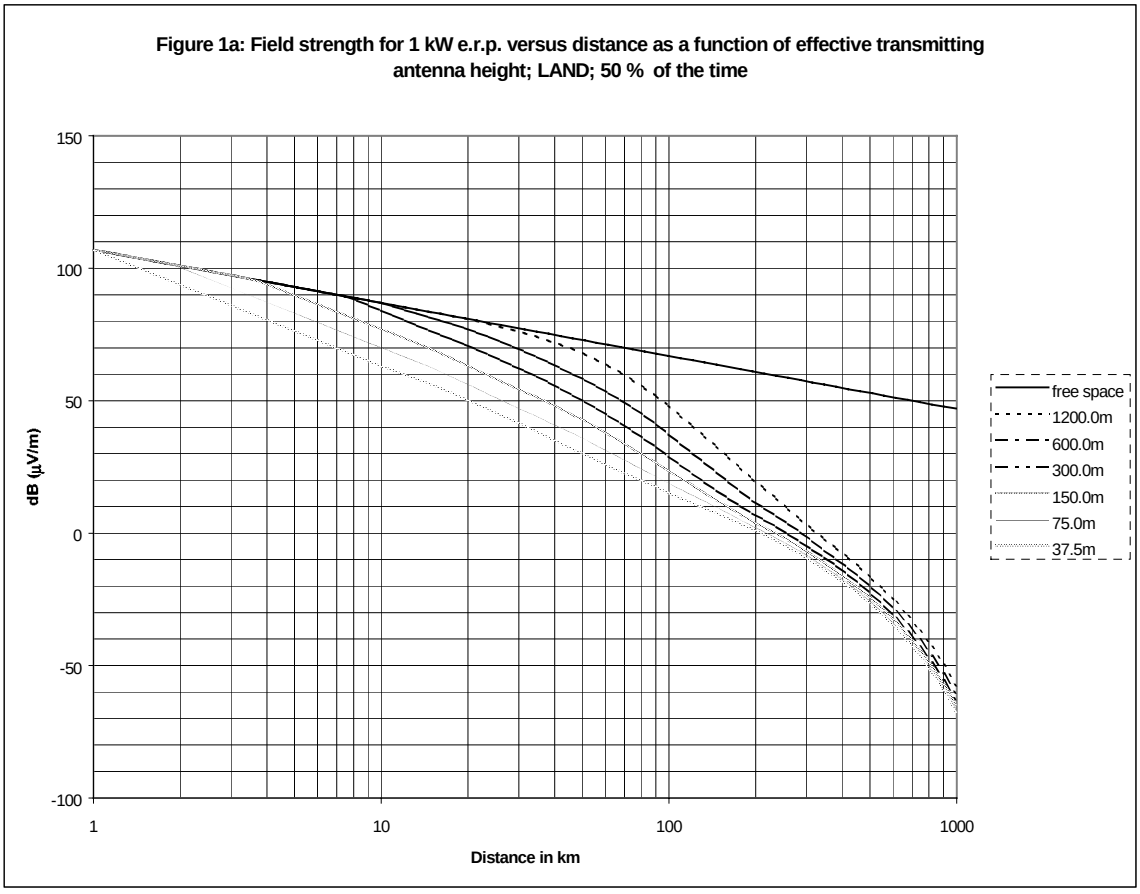


Figure 1b: Field strength for 1 kW e.r.p. versus distance as a function of effective transmitting antenna height; LAND; 1 % of the time

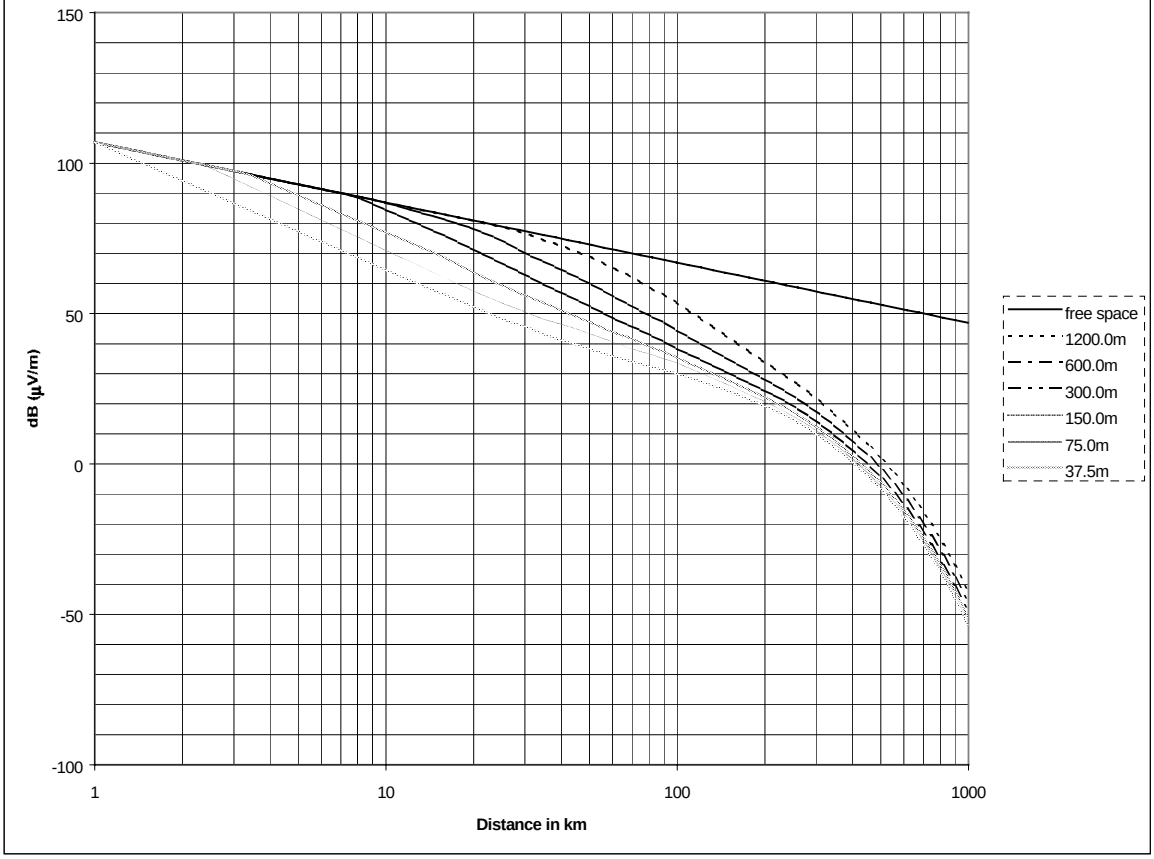


Figure 2a: Field strength for 1 kW e.r.p. versus distance as a function of effective transmitting antenna height; COLD SEA; 50 % of the time

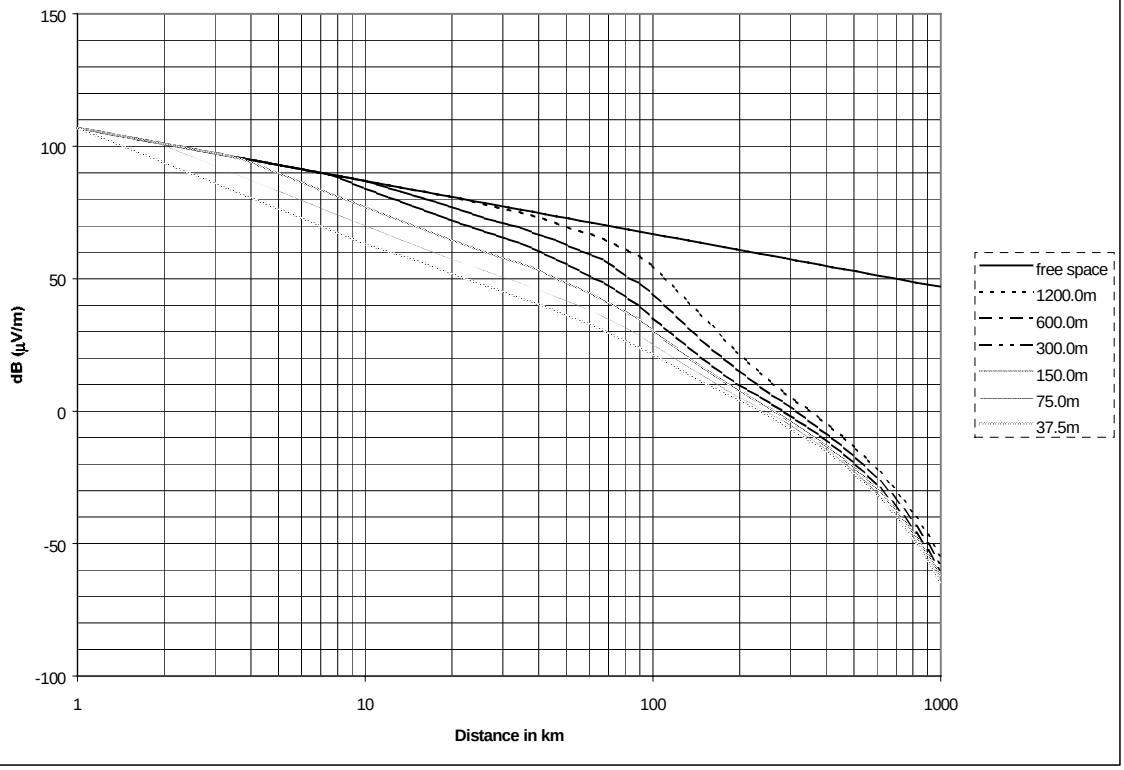


Figure 2b: Field strength for 1 kW e.r.p. versus distance as a function of effective transmitting antenna height; COLD SEA; 1 % of the time

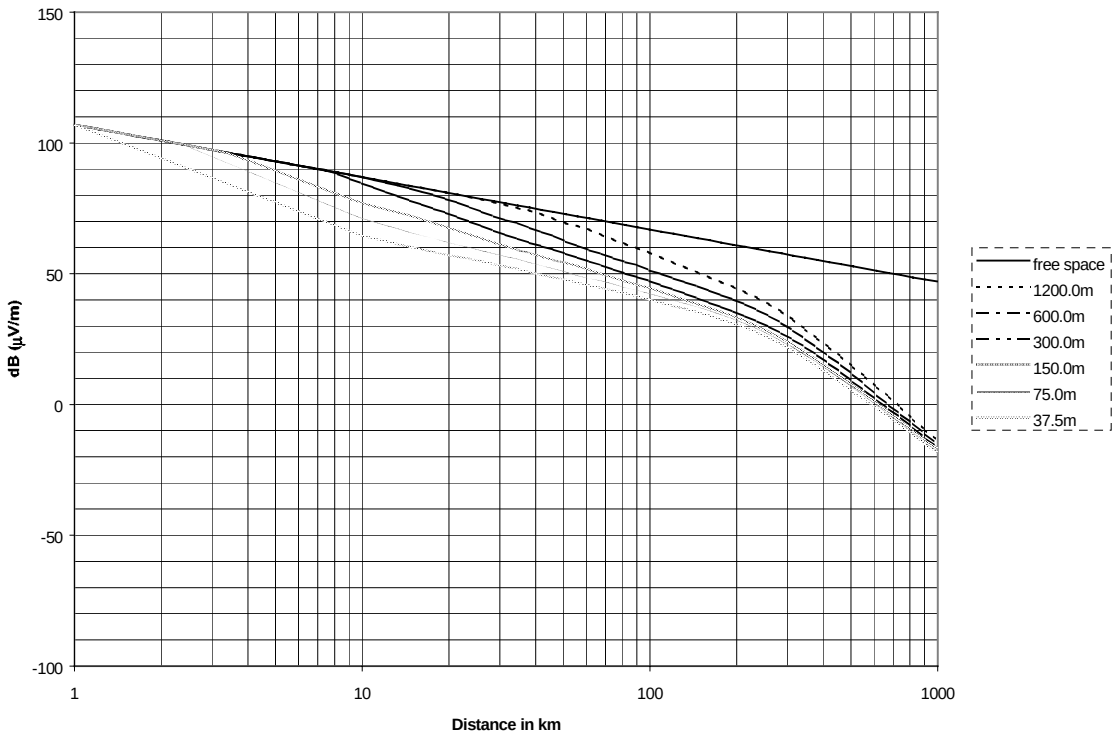


Figure 3a: Field strength for 1 kW e.r.p. versus distance as a function of effective transmitting antenna height; WARM SEA; 50 % of the time

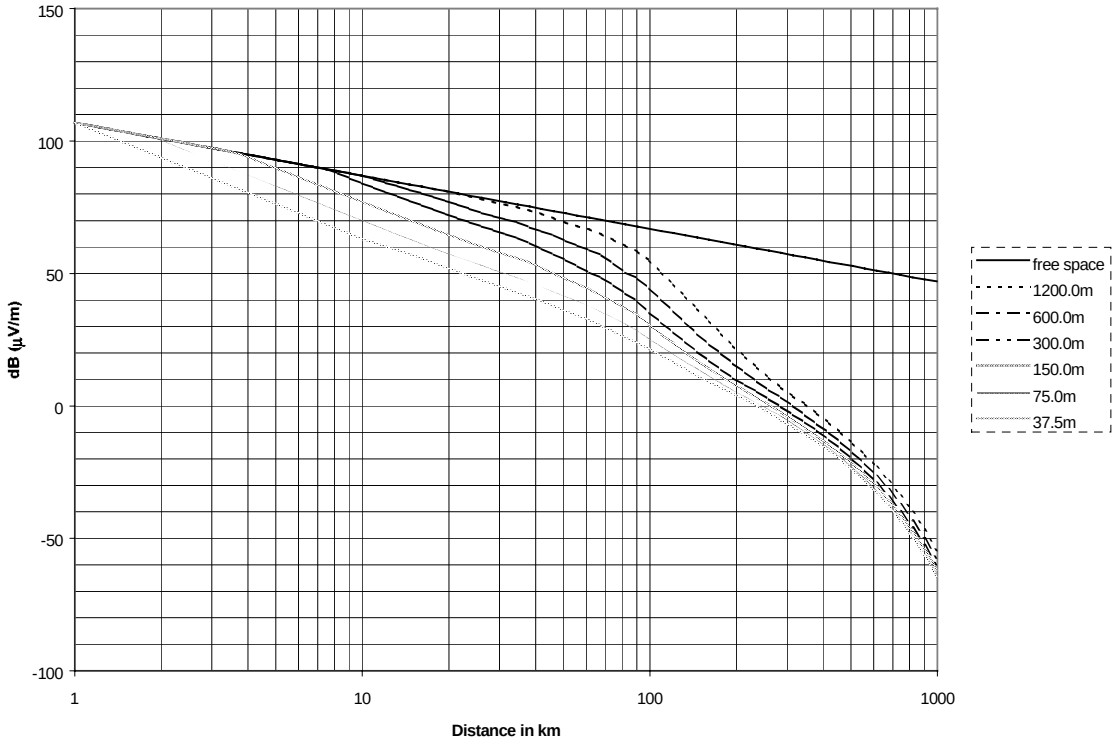


Figure 3b: Field strength for 1 kW e.r.p. versus distance as a function of effective transmitting antenna height; WARM SEA; 1 % of the time

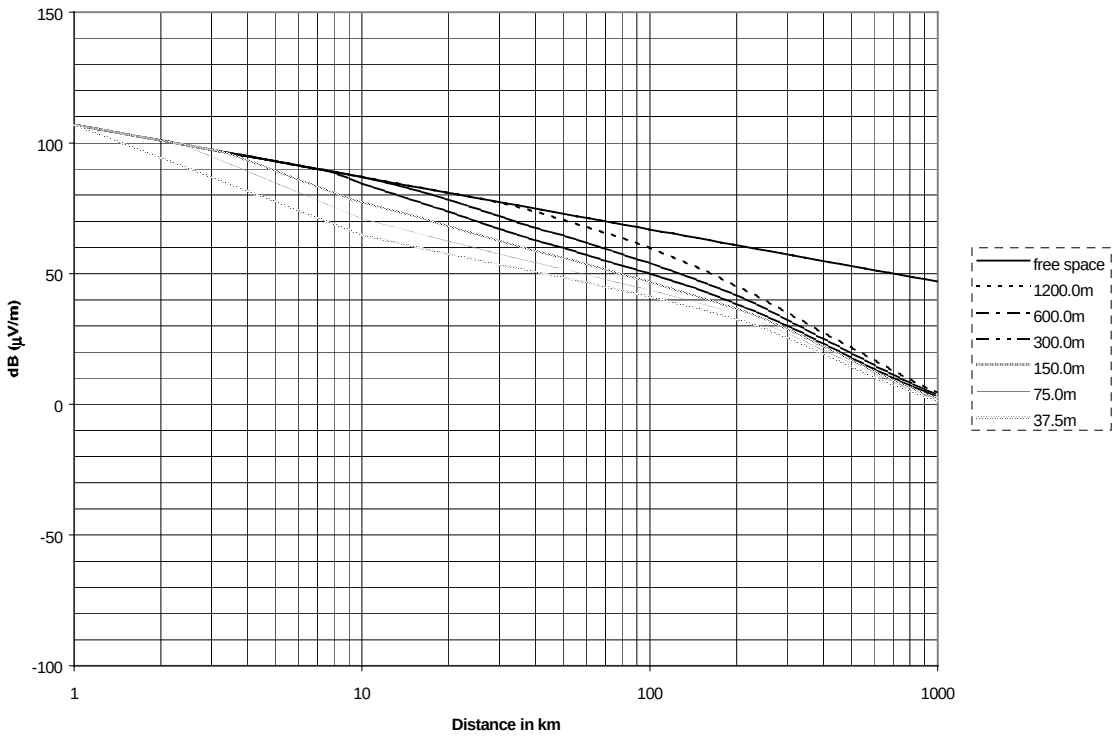
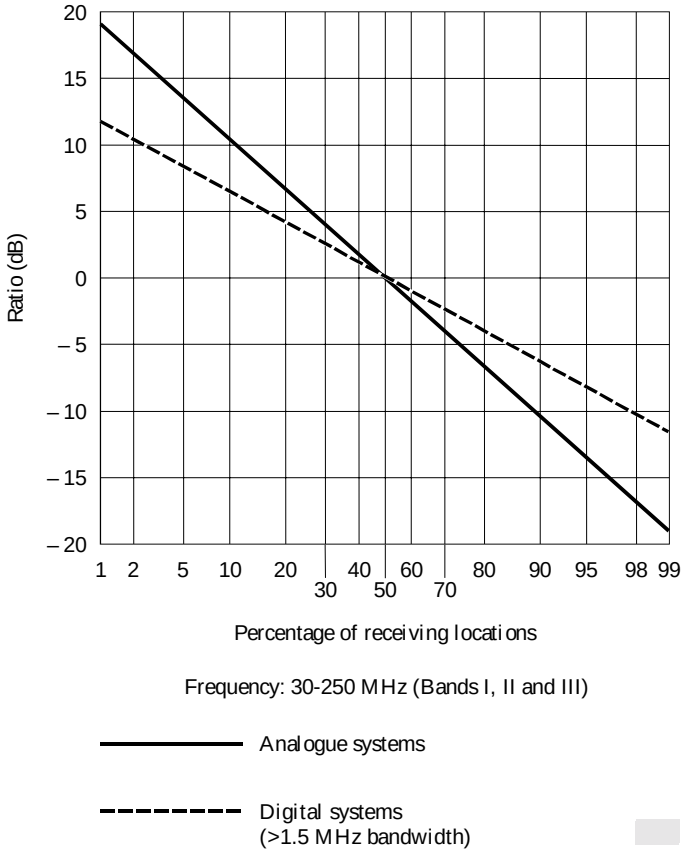


FIGURE 4

Ratio (dB) of the field strength for a given percentage of the receiving locations to the field strength for 50% of the receiving locations



ANNEX 3 A

Basic characteristics of a T-DAB allotment[1] to be communicated for a modification to the Allotment Plan, in accordance with Article 4

1 ADD/MOD[2]/SUP

2 ITU code for administration

3 T-DAB identifier

4 Year in which this submission is intended to be converted into one or more assignments

5 Name of the allotment

6 Frequency block

7 Centre frequency offset[3] (kHz)

8a Indicate if test points on country boundary for the allotment are to be used

8b If 8a) does not apply, give up to 36 test point co-ordinates (longitude and latitude) in degrees, minutes and seconds, clockwise starting from North

9 Date of submission

10 Remarks

Notes

[1] For the technical parameters of an allotment, the standard reference model, as given in Section 5 of Annex 2, is assumed.

[2] For modifications to an allotment, the characteristics which represent modifications should be indicated both the old and the new value.

[3] Offset is defined as (centre frequency to be used) - (nominal centre frequency).

For submission of data in the electronic form the record-structure specified in Appendix 1 to this Annex shall be used.

ANNEX 3 B

Basic characteristics of T-DAB assignment to be communicated for the conversion of a T-DAB allotment into one or more assignments in accordance with Article 6

1 ADD/MOD[1]/SUP

2 ITU code for a responsible administration

3 Identification code of the assignment used by the administration

4 Date of entry into operation

5 ITU code for a country in which the transmitter is situated

6 T-DAB identifier

7 Name of allotment

8 Name of the transmitter station

9 Geographical co-ordinates of the transmitter (latitude and longitude; in degrees, minutes, seconds – preferably WGS84)

10 Altitude of site above mean sea level (m)

11 Frequency block

12 Nominal centre frequency

13 Centre frequency offset[2] (kHz)

14 Maximum effective radiated power of the horizontally polarized component (dBW)

15 Maximum effective radiated power of the vertically polarized component (dBW)

16 Polarization (horizontal, vertical, mixed)

17 Height of transmitting antenna above ground level (m)

18 Antenna attenuation (dB) for the horizontally polarized component referred to the maximum value of the effective radiated power (quoted in 14) for each step of 10 degrees clockwise starting from North

19 Antenna attenuation (dB) for the vertically polarized component referred to the maximum value of the effective radiated power (quoted in 15) for each step of 10 degrees clockwise starting from North

20 Effective antenna height (m) for each step of 10 degrees clockwise starting from North

21 Spectrum mask used

22 Agreement numbers of the Plan

23 Date of submission

24 Remarks

Notes

[1] For modifications to an assignment, the characteristics which represent modifications should be indicated, both the old and the new values.

[2] Offset is defined as (centre frequency to be used) - (nominal centre frequency).

For submission of data in the electronic form the record-structure specified in Appendix 2 of this Annex shall be used.

Appendix 1

Data structure for electronic submission of basic characteristics of a T-DAB allotment to be communicated for a modification to the Allotment Plan

Each data file consists of the fixed length records separated by the "Carriage return - Line feed" (CrLf) pair of characters.

Each record consists of a number of fields containing ASCII characters. An interpretation of any record is unambiguously defined by the field "Record identifier" (field 1).

Each field is uniquely defined by its position within the record.

Field	Item	Start Column	Width	Type
1	Record identifier, must be '**ALL1**'	1	4	A4
2	ITU code for administration responsible (padded by underscores to 3 characters)	5	3	A3
3	T-DAB identifier (5 digits identifying number)	8	5	A5
4	ADD/MOD/SUP	13	3	A3
5	Year in which this submission is intended to be converted into one or more assignments	16	4	I4
6	Name of the allotment (Up to 20 alphanumeric characters)	20	20	A20
7	T-DAB frequency block	40	3	A3
8	Unused	43	1	
9	Centre frequency offset in Hz - defined as: (centre frequency to be used) - (nominal centre frequency)	44	8	I8
10	Enter "**B**" if test points on the country boundary for the allotment are to be used. Otherwise leave blank	52	1	A1
11	If previous field is blank, enter Number of test points (up to 36)	53	2	I2
12	Test points. Up to 36 co-ordinates (longitude and latitude) in degrees and minutes. Example: 017E164346N2731 is co-ordinate 17 deg, 16 min, 43 sec East and 46 deg, 27 min, 31 sec North	55	540	36(I3,A1,I2,I2, I2,A1,I2, I2)
13	Date of submission (DDMMYYYY)	595	8	2I2,I4
14	Remarks	603	165	A165
99	Reserved for housekeeping purposes	768	32	A32

Record length: 799 characters

Appendix 2

Data structure for electronic submission of basic characteristics of T-DAB assignment to be communicated for the conversion of a T-DAB allotment into one or more assignments

Each data file consists of the fixed length records separated by the "Carriage return - Line feed" (CrLf) pair of characters.

Each record consists of a number of fields containing ASCII characters. An interpretation of any record is unambiguously defined by the field "Record identifier" (field 1).

Each field is uniquely defined by its position within the record.

Field	Item	Start Column	Width	Type
1	Record identifier, must be '**ASS1**'	1	4	A4
2	ITU code for administration responsible (padded by underscores to 3 characters)	5	3	A3
3	T-DAB identifier (5-digits identifying number)	8	5	I5
4	ADD/MOD/SUP	13	3	A3
5	Identification code of the assignment used by the administration	16	9	A9
6	Date of entry into operation (DDMMYYYY)	25	8	2I2, I4
7	ITU code for country in which transmitter is sited (padded by underscores to 3 characters)	33	3	A3
8	Name of the allotment	36	20	A20
9	Name of the transmitter station	56	20	A20
10	Transmitter site- latitude (in degrees, minutes and seconds). Example: 46N2731 is co-ordinate 46 degrees, 27 minutes and 31 seconds North	76	7	I3, A1, 2I2
11	Transmitter site- longitude (in degrees, minutes and seconds). Example: 017E1643 is co-ordinate 17 degrees, 16 minutes and 43 seconds East	83	8	I2, A1, 2I2,
12	Altitude of site (meters above sea level; as sign followed by number)	91	5	I5
13	T-DAB frequency block	96	3	A3
14	Nominal centre frequency in MHz (including decimal point)	99	9	F9.3
15	Centre frequency offset in Hz - defined as: (centre frequency to be used) - (nominal centre frequency)	108	8	I8
16	Maximum e.r.p. of horizontally polarised component (in dBW; as sign followed by a number including a decimal point)	116	5	F5.1
17	Maximum e.r.p. of vertically polarised component (in dBW; as sign followed by a number including a decimal point)	121	5	F5.1
18	Polarisation (**H**/**V**/**M**)	126	1	A1
19	Height of transmitting antenna (meters above ground level.)	127	3	I3
20	(**D**irectional/**N**on-directional	130	1	A1
21	Antenna attenuation - horizontal. 36 values of e.r.p. reduction (in dB) of the horizontally polarised component in the horizontal plane relative to the maximum e.r.p. component as given in field 16 (at 10 degrees intervals, starting at North, clockwise)	131	72	36I2
22	Antenna attenuation- vertical. 36 values of e.r.p. reduction (in dB) of the vertically polarised component in the horizontal plane relative to the maximum e.r.p. as given in field 17 (at 10 degree intervals, starting at North, clockwise)	203	72	36I2
23	Effective antenna height. Put '**U**' if the effective height of the antenna is the same in all directions. Otherwise put '**N**'	275	1	A1
24	If the preceding field contains '**U**' give the effective height. Otherwise give 36 values of effective antenna height (in meters, at 10 degree intervals, starting at North, clockwise)	276	180	36I5
25	Spectrum mask	456	1	A1

Field	Item	Start Column	Width	Type
26	Date of submission (DDMMYYYY)	457	8	2I2, I4
27	Agreement numbers of the Plan	465	100	20A5
28	Remarks	565	203	A203
99	Reserved for database housekeeping purposes	768	32	A32

Record length: 799 characters

ANNEX 4

TECHNICAL PROCEDURES FOR CO-ORDINATION

1. INTRODUCTION

The T-DAB Allotment Plan was developed using the concept of test points, T-DAB reference networks and agreements between administrations. Test points along the boundary of each T-DAB allotment area and for other services to be protected were supplied by administrations to the Planning Meeting.

This Annex describes the detailed procedures for:

– converting an allotment into one or more assignments;

– the addition or modification of an allotment.

2. PROCEDURES FOR THE CONVERSION OF AN ALLOTMENT INTO ONE OR MORE ASSIGNMENTS

2.1 General procedures

The following procedures have been determined to enable the implementation of the Plan without undue restrictions.

It is assumed that a T-DAB allotment will be implemented as a set of transmitting stations operating as a single frequency network. The latter is referred to below as a “real network”.

The individual field strength, at any test point, produced by each transmitter of a real network should be determined using the field strength prediction method specified in Section 2 of Annex 2. In the case of potential interference to the aeronautical mobile service, the free space propagation model is to be used, subject to a line of sight condition between transmitter and test point and also subject to a maximum distance of 500 km. The value of the determined individual field strength should be modified, where relevant, by taking account of any receiving antenna discrimination. The cumulative interfering field strength is calculated by the power sum method, with the result rounded to one decimal place as explained below. Only the interference from that allotment being converted into assignments will be taken into account.

The individual field strengths obtained at any test points from all transmitting stations of the T-DAB allotment are processed in decreasing order. The power sum is obtained as follows:

– starting from the highest, the power values equivalent to the interfering field strengths are added, one after the other;

– at each summation, the result is compared to the previous one;

– if the increase in power is greater than or equal to 0.5 dB, the summation process continues;

– if the increase in power would be less than 0.5 dB, the summation process is stopped and 0.5 dB is added, giving the result of the power sum.

In order to provide flexibility for the development of T-DAB services, it is necessary to provide an overall limit for the interference which could be created by a set of T-DAB assignments. In order to do this, a limited number of calculation test points are introduced (see Appendix 1 of this Annex).

To avoid ambiguity, the Plan Management Body will determine the position of the calculation test points for each allotment and distribute them to all administrations, after resolution of potential anomalies in the position of the test points with the relevant administration.

Agreed coastlines are needed for the calculation of the mixed paths and agreed country borders are needed to identify any affected country or countries. The coastline and country border data shall be the current ITU versions.

In addition to any constraints arising from the protection requirements detailed in sections 2.2 and 2.3, if the cumulative field strength from the transmitters of the real network exceeds 33.0 dB(μV/m) for Band III at any of the calculation test points (see Appendix 1), co-ordination is required with those countries:

- touched by a calculation test point at which the cumulative field strength value exceeds 33.0 dB(μV/m) for Band III; or

- lying along the extension of the line which defines the calculation test point location, to a point at which a field strength value of 33.0 dB(μV/m) for Band III is reached.

If, with regard to Section 3 in the procedure for the addition or modification of an allotment, values of the maximum permissible cumulative field strengths at the calculation test points lower than 33.0 dB(μV/m) were notified, then co-ordination is required in the same way as if these values were exceeded.

If an assignment requested to be converted from an allotment exceeds the relevant limits, administrations may seek agreement between each other. If this is not possible, Section 3 can be applied.

2.2 Compatibility of T-DAB with T-DAB

2.2.1 Protection of co-block allotments

At the boundary test points describing any other co-block allotment, the interfering field strength level of 33.0 dB(μV/m) for Band III must not be exceeded by a real network, unless there are special agreements between the administrations concerned. Such agreements are to be reached by bi-lateral or multi-lateral co-ordination. This value implies that the field strength to be protected becomes 61.0 dB(μV/m) for Band III on the basis of a protection ratio of 10 dB and a margin of 18 dB (to allow for protection at 99 % of locations).

In the case of allotments or assignments which are co-ordinated after the Wiesbaden Planning Meeting and where the calculation test points of the affected or co-ordinated co-block allotment are located inside the area of the other allotment, there should be notified a record

of the maximum interfering field strength levels at individual test points of the affected and co-ordinated co-block allotments accepted when allotments are converted into assignments.

2.2.2 Protection of adjacent blocks in nearby areas

Co-ordination is needed if the cumulative interfering field strength of the real network is greater than 80 dB(μV/m), for Band III (when the critical spectrum mask is assumed) at the boundary of any allotment with a frequency block adjacent to that of the allotment being converted to assignments. If the interfering field strength contour of the proposed station crosses the boundary of a nearby adjacent block allotment, it may be necessary to make a visual inspection of the relevant maps and undertake calculations to specify additional test points, taking account of topography.

2.3 Compatibility of T-DAB with Other Services

The cumulative interfering field strength resulting from the real network is to be checked at each boundary test point of the Other Service lying inside a circle with a radius of 500 km, around each boundary test point of the allotment being converted into assignments.

If there is no special agreement on the conditions of use of a T-DAB allotment with regard to the Other Services, the maximum permissible field strength (calculated as stated in Section 4.2.2 of Annex 2) to protect the relevant Other Service is to be observed.

The calculation of the maximum permissible field strength must take into account the field strength value to be protected which is specified in the data used at the planning meeting where this is higher than the default value given in Annex 2 for this Other Service.

Co-ordination is needed if the maximum permissible field strength value is exceeded by the cumulative interfering field strength of the real network at any boundary test point for a given Other Service requirement as described in Section 4.2.2 of Annex 2.

However, a T-DAB allotment in Annex 1 with no asterisk and no other conditions for use can be converted into T-DAB assignments without restrictions provided the cumulative interfering field strength of the real network does not exceed the worst case interfering field strength from a reference network situated at any of the boundary test points of the T-DAB allotment.

If there is a special agreement on the conditions of use of a T-DAB allotment with regard to the Other Services, co-ordination must be undertaken:

- if the agreement specifies that co-ordination is required before conversion of the allotment; or

- if the cumulative interfering field strength from the real network exceeds the agreed value, where such a value is specified in the agreement; or

- in the case where the agreement includes neither requirement for co-ordination nor specific field strength limit for T-DAB,

- if the cumulative interfering field strength of the real network exceeds the worst case interference from a reference network situated at any boundary test point of the T-DAB allotment at any of the boundary test points of the Other Service area, except,

  - for those boundary test points of the Other Service area at which the cumulative interfering field strength does not exceed the maximum permissible field strength value (calculated as stated in Section 4.2.2 of Annex 2);

  - those which lie within a distance of 10 km from the T-DAB allotment, initially approximated by using the boundary test points;

- and also if the cumulative interfering field strength exceeds the value of 30 dB(μV/m) for Band III at any special calculation test point lying within the Other Service area; these special calculation test points shall be constructed in accordance with Appendix 1 of this Annex, but using everywhere 30 dB(μV/m) instead of 27 dB(μV/m) for Band III.

  In this last case, at any of these test points, a cumulative interference field strength of the real network shall be accepted if it does not exceed the worst case interfering field strength from a reference network situated at any of the boundary test points of the T-DAB allotment, as this is the implication of an agreement without explicit restrictions.

Furthermore, when considering requests for co-ordination, administrations should note that it is difficult, when planning real networks, to avoid exceeding the field strength from a reference network by small amounts (1 to 2 dB), at a small number of test points. Such cases should be considered in a spirit of co-operation during the co-ordination process.

3. PROCEDURES FOR THE ADDITION OR MODIFICATION OF AN ALLOTMENT

In the application of the procedures given in Article 4, the methods and criteria given in Annex 2 have to be used to determine whether any other administration is affected by a proposal for a new or modified allotment.

Co-ordination is necessary if the allotment would, using the reference network of Annex 2:

– cause field strengths greater than or equal to 27 dB(μV/m) for Band III at the boundary of any other administration; or,

– with regard to any other services, cause field strengths greater than or equal to the maximum permissible interfering field strengths at the boundary of any other administration.

Co-ordination requests will be dealt with by the Plan Management Body in the order in which they are received, the date of reception of each request being recorded and published with the request.

Where a co-ordination request is submitted before the Plan Management Body publishes a co-ordination request from another administration, and where these two requests are mutually incompatible, they shall have an equivalent status in bilateral negotiations between the administrations concerned.

It is admissible for a requesting administration to include, as given in Annex 3B, the full technical characteristics of the assignments which are intended to be used to serve the allotment area. In such a case, the requesting administration should declare in the co-ordination pro-forma based on Annex 3A, that these assignments are to be used in interference calculations for the co-ordination process, instead of the reference network of Annex 2.

The construction of calculation test points is the same procedure as given in Appendix 1 of this Annex. However, in the case described in the previous paragraph, the calculation test points are situated where the transmitting stations of these assignments create a cumulative field strength of 30 dB(μV/m) for Band III. If a subsequent conversion of the allotment involves assignments which differ in any respect from those included in the co-ordination of the allotment, then the procedure of Section 2.1 of this Annex shall be applied.

An administration receiving a request for co-ordination of an allotment which is co-block with one of its existing allotments may make agreement to this request conditional on the maintenance of its existing rights of implementation for this existing allotment. The effect of such a condition is that the new allotment would then not have a right of protection from the existing allotment within the contour described by the latter's calculation test points.

The introduction of frequency offsets for T-DAB blocks contained in the Plan is considered as a modification which must be co-ordinated. The relevant co-ordination criteria for T-DAB against T-DAB would have to be agreed upon among the administrations concerned.

The use of frequency offsets for T-DAB blocks relative to the frequencies adopted in the Plan may be considered, for example, for the purpose of:

a) reducing adjacent block interference;
b) minimising interference from T-DAB into television.

Such changes involve design implications for T-DAB receivers and the effect of the offsets needs to be co-ordinated between the administrations concerned within the procedures for addition or modification of an allotment. In any event, the number of offset values should be kept to a minimum.

4. GENERAL

The principle of an equitable distribution of frequency resources shall be taken into account, in particular, if co-ordination requests are made for allotments which may have major effects on the T-DAB development plans of other administrations. In this case, the requesting administration should inform the countries affected prior to sending out the co-ordination request. However, in requesting an addition or modification of an allotment, the requesting administration should have a real intention to convert its allotment into one or more assignments within a suitable time period. In addition, it should be recognized that the requirements may vary in nature and detail from country to country. If necessary, administrations may apply the procedure given in paragraph 2.5 of Article 2.

In cases of bi-lateral or multi-lateral agreements, administrations may agree to use different field strength prediction models, e. g. considering topographic elements. Similarly, they may also agree on a programme of measurements to confirm predicted results.

APPENDIX 1

CONSTRUCTION OF CALCULATION TEST POINTS

1 The locations of the calculation test points are to be determined using the following procedure.

2 Perpendicular bisectors:

- calculation test points are located outside the allotment area, along the perpendicular bisector of each of the lines joining adjacent boundary test points, where the field strength from the reference network would be 27.0 dB(μV/m) for Band III. Examples are point P in Figures 1, points 2, 4, 6, 8, and 14 in Figure 3 and points 1b and 1c in Figure 4.

3 Angular bisectors:

- further calculation test points are located outside the allotment area, along the bisector of the angle formed by the lines joining each boundary test point with its two adjacent boundary test points, where the field strength from a reference network would be 27.0 dB(μV/m) for Band III . Examples are point P in Figures 2, points 1, 3, 5, 7, 10 and 13 in Figure 3, points 1a, 2a and 3a in Figure 4 and point 2e in Figure 5.

- Taking account of the allotment boundary geometry shown in Figures 4 and 5, the following procedures are to be applied:

3.1 In the case where $\alpha < 180°$ (see Figure 4):

- additional calculation test points are located outside the allotment area, along the perpendiculars to the lines joining point A to B, and point C to B, where the field strength from the reference network situated at point B would be 27.0 dB(μV/m)for Band III . Test points 1e and 1d are the result.

- If the distance between the constructed additional calculation test points 1e and 1d to calculation test point 1a is larger than 75 km (Band III) , additional test points are constructed by subdividing, equally, the sectors from test point 1a to test point 1e and/or test point 1a to test point 1d, to produce additional test points until:

  $\beta < 2 \arcsin(d/2D)$

  where: d is 75 km (Band III) , and

  D is either the larger of the distances from point B to test point 1e and point B to test point 1a in the case of the sector from test points 1e to 1a or, the larger of the distances from point B to test point 1d and point B to test point 1a in the case of the sector from test points 1a to 1d.

- The calculation test point on each of these additional lines is at the location where a field strength of 27.0 dB(μV/m) for Band III is produced from a reference network situated at point B. This leads to calculation test points 1f and 1g in the case of the geometry of Figure 4.

3.2 In the case where $\alpha \geq 180°$ (see Figure 5):

- additional calculation test points are located along the bisector of the angle formed by the lines joining the allotment test points A, B and C outside the allotment area, where the field strength from the reference network would be 27.0 dB(μV/m) for Band III.

- If the field strength of a reference network at any of the other test points of the allotment produces a higher field strength than that given above, the calculation test point must be moved further outside the allotment area, along the bisector of the angle, until the field strength from a reference network at all test points of the allotment is equal to or less than 27.0 dB(μV/m) for Band III; this gives calculation test point 2e in Figure 5.

4 All calculation test points that lie within the allotment area are to be disregarded, for example point 12 in Figure 3.

5 Calculation test points that lie too close to the boundary of the allotment area, such that the field strength from the reference network would be greater than 27.0 dB(μV/m) for Band III are to be disregarded, for example points 9 and 11 in Figure 3.

6 If the length of a line drawn between adjacent calculation test points is more than 75 km (Band III), additional calculation test points are to be constructed by subdividing the line in equal parts until the distance between adjacent calculation test points is less than the values given above.

7 If any of the constructed calculation test points of the allotment A is located inside or beyond the allotment area of any other co-block T-DAB allotment B then it shall be moved back along the line being constructed towards the boundary of the co-block allotment until it intersects the contour defined by the boundary test points of the allotment B that faces allotment A. The intersection is to be taken as the required calculation test point of the allotment A.

8 Except where there is a co-block T-DAB allotment at a shorter distance, the distance between the allotment boundary and the relevant calculation test point in Band III will be approximately:
- 120 km for an all land path;
- 205 km for an all cold sea path;
- 250 km for an all warm sea path;

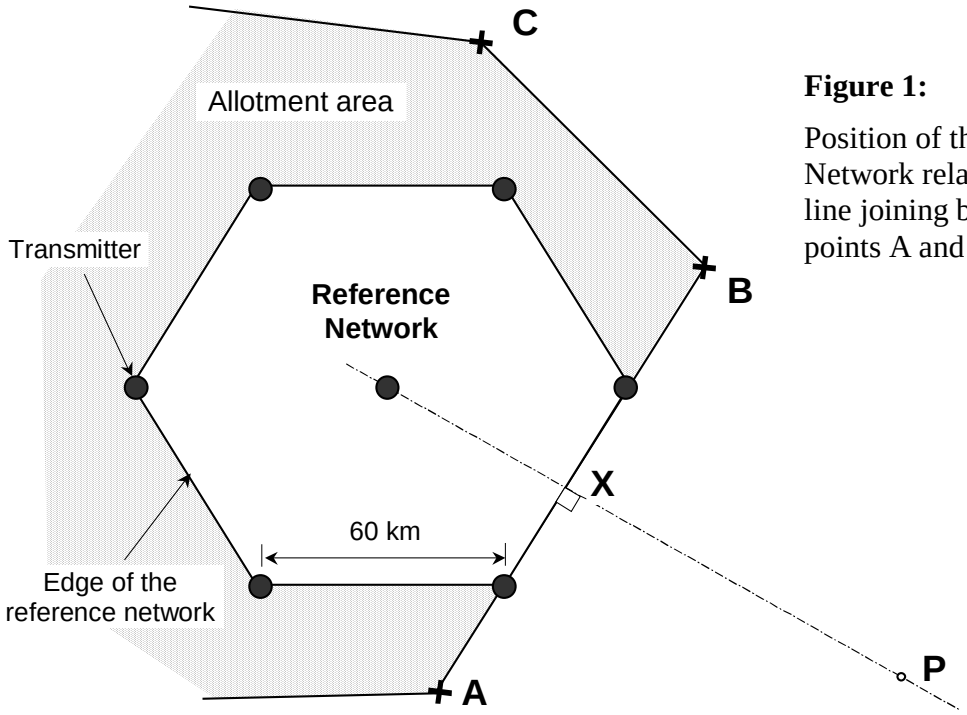


Figure 1:

Position of the Reference Network relative to the line joining boundary test points A and B

Note:

- Points A, B and C are boundary points of the allotment area.
- The point X is the midpoint of the line A-B and is also the reference point of the reference network.
- The line defined by the points X and P is the perpendicular bisector of the line A-B and is also the line along which the interfering field strength is calculated.

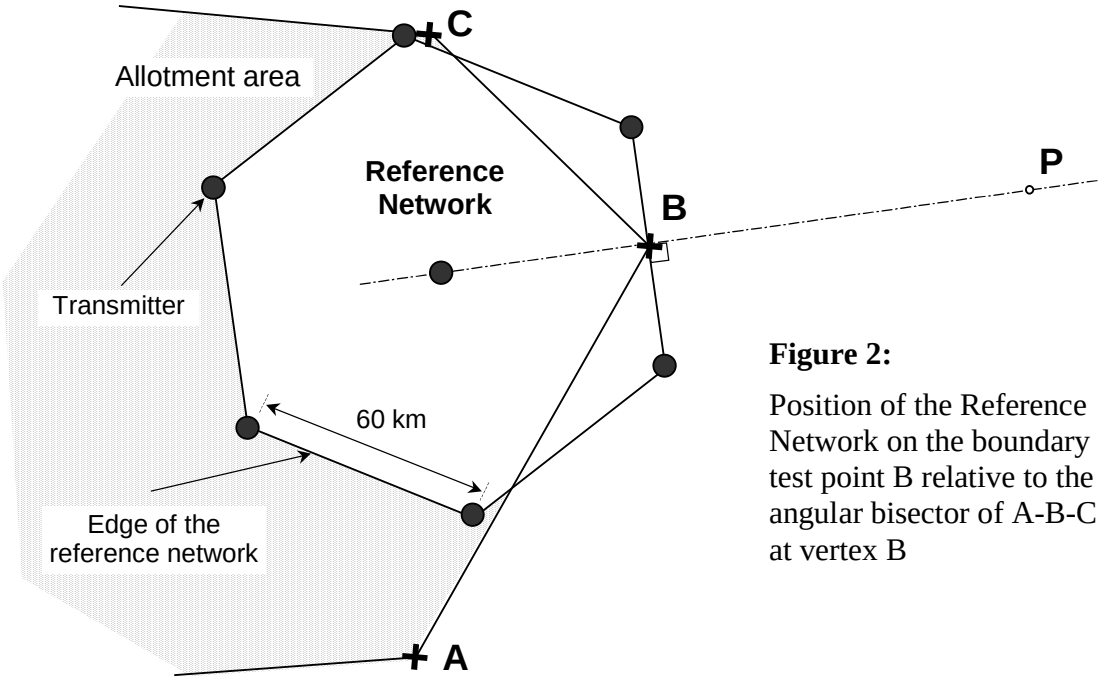


Figure 2:

Position of the Reference Network on the boundary test point B relative to the angular bisector of A-B-C at vertex B

Note:

- Points A, B and C are boundary points of the allotment area.
- The point B is the vertex of the angle A-B-C and is also the reference point of the reference network.
- The line defined by the points B and P is the angle bisector of angle A-B-C and is also the line along which the interfering field strength is calculated.

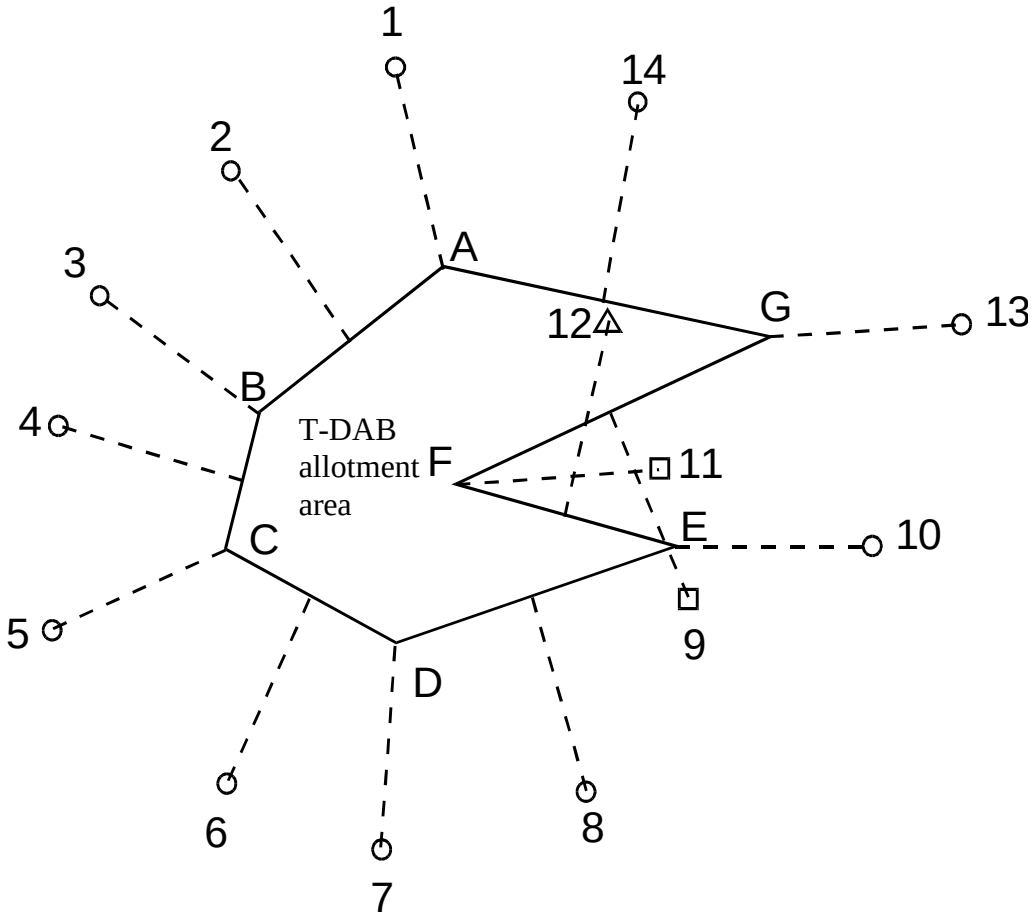


Figure 3: Location of the calculation test points

Note 1: Points A to G are the boundary test points of the allotment

Note 2: Points 1 to 14, excluding points 9, 11 and 12, are calculation test points

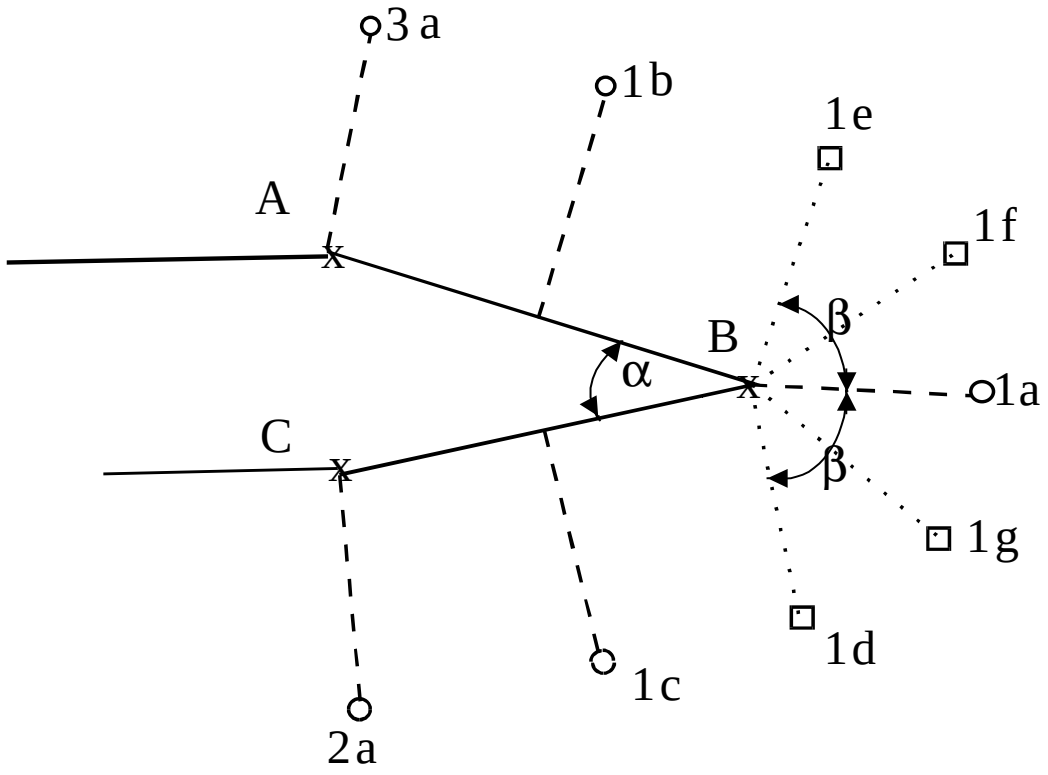


Figure 4: Construction of additional calculation test points if $\alpha < 180°$(see Note below)

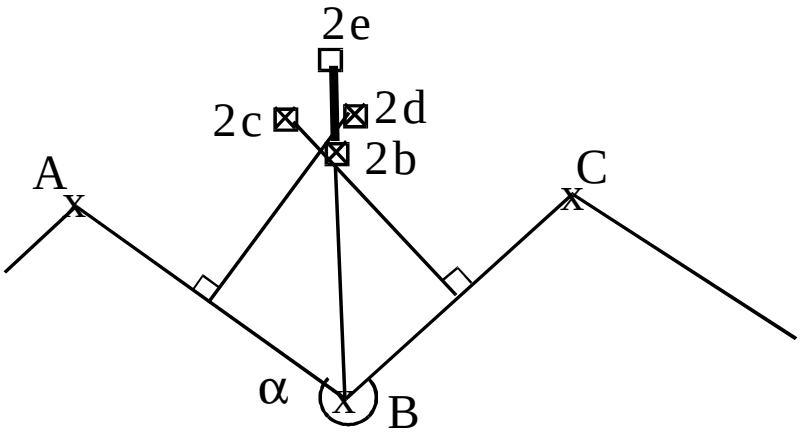
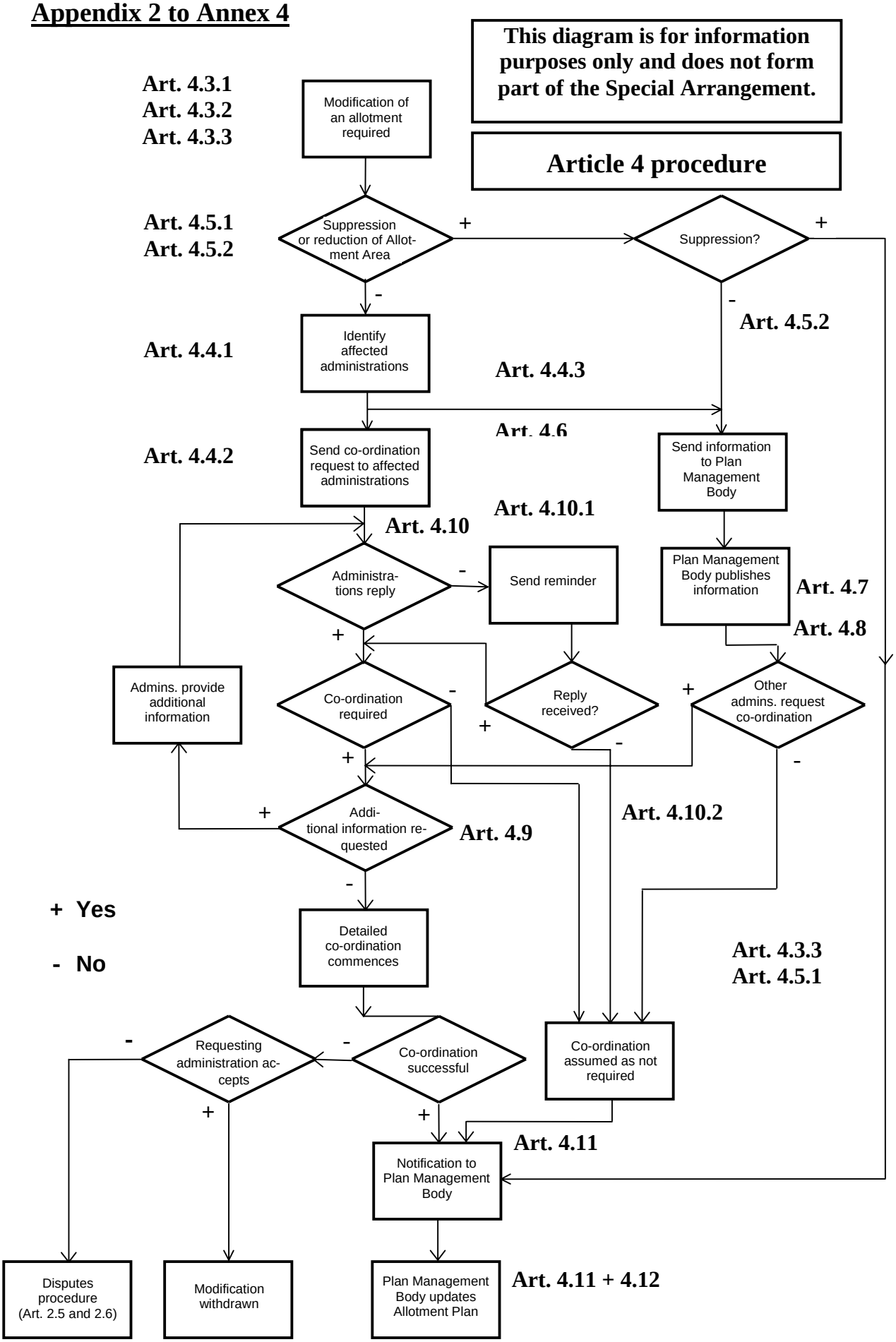


Figure 5: Construction of additional calculation test points if $\alpha \geq 180°$ (see Note below)

Note:	A, B, C	Boundary test points of allotment
○	1a, 1b, 1c, 2a, 3a	Calculation test points
□	1d, 1e, 1f, 1g, 2e	Additional calculation test points
⊠	2b, 2c, 2d	Calculation test points disregarded because the field strength exceeds the specified threshold

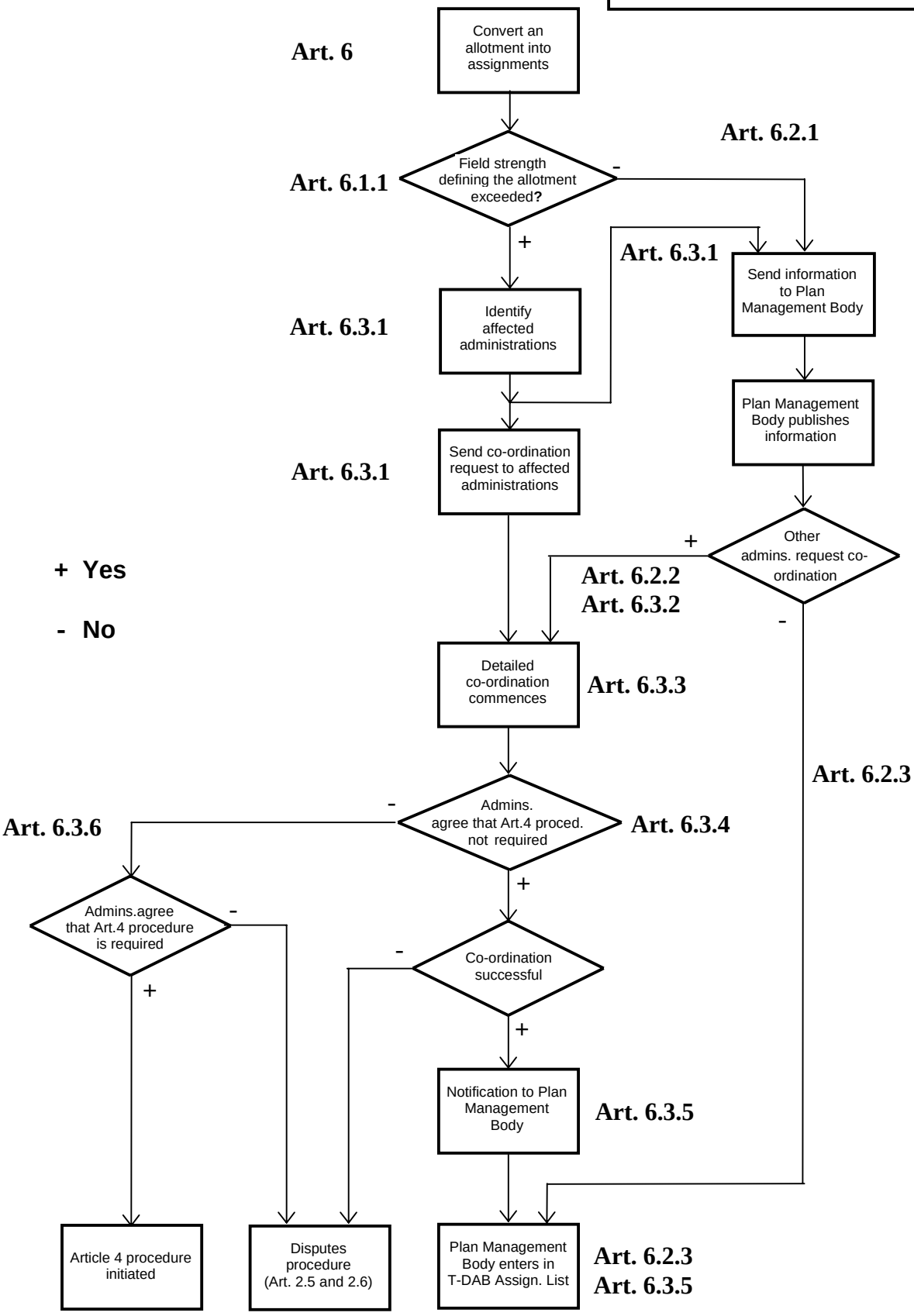
Appendix 2 to Annex 4



Appendix 3 to Annex 4

This diagram is for information purposes only and does not form part of the Special Arrangement.

Article 6 procedure



ANNEX 5

T-DAB frequency block allotments in the band 87,5 - 108 MHz
agreed between the administrations concerned, but not forming part of the Plan

T-DAB Identifier	Name	Centre Frequency	Remarks
POL10018	CENTRALPOLAND2	105.008 MHz	To be coordinated after the Planning Meeting with CZE, RUS, LTU, SVK, UKR

Supplementary Information A

to the

Special Arrangement
of the European Conference of Postal and Telecommunications Administrations (CEPT)
relating to the use of the bands 47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and
230 - 240 MHz for
Terrestrial Digital Audio Broadcasting (T-DAB)

List of Agreements

242	OS	CZE00003	HNG	12D
244	OS	CZE00002	I	12B 12C 12D
245	OS	CZE00003	I	12B 12C 12D
265	OS	AUT00002	SVN	12A 12B 12C 12D
266	OS		SVN	12A 12B 12C 12D
267	OS	AUT00005	SVN	12A 12B 12C 12D
268	OS	AUT00006	SVN	12A 12B 12C 12D
282	OS	BEL10001	BEL	12A 12B 12C
283	OS	BEL10002	BEL	11B
284	OS	BEL10003	BEL	11C
285	OS	BEL10004	BEL	6C
287	OS	BEL20001	BEL	12A 12B 12C
288	OS	BEL20002	BEL	9C LD
289	OS	BEL20003	BEL	6D LD
298	OS	HRV00563	F	12B 12C 12 D
299	OS	HRV00564	F	12B 12C 12 D
301	OS	HRV00566	F	12B 12C 12 D
304	OS	HRV00561	SVN	12A 12B 12C 12D
305	OS	HRV00562	SVN	12A 12B 12C 12D
306	OS	HRV00563	SVN	12A 12B 12C 12D
307	OS	HRV00564	SVN	12A 12B 12C 12D
308	OS	HRV00565	SVN	12A 12B 12C 12D
340	OS	AUT00008	AUT	12A
346	OS	AUT00004	AUT	12A
354	OS	DNK10006	BEL	12C 12D 13E
355	OS	DNK10001	BEL	12C 12D 13E
357	OS	AUT00002	HNG	12D
371	OS	AUT00002	F	12B 12D F1401, F1402, F1408, F1409 (YF)
377	OS	AUT00007	F	12A 12B 12C 12D F 1001, F 1013, F 1201, F 1213, F7063, F7064, F7065, F7066, F7067, F7068, F7069, F1401, F1402, F1403, F1404, F1405, F1406, F1407, F1408, F1409 (YC+YD+YF+YY) Compatibility with French A/G/A-services to be coordinated for use of 12D
379	OS	AUT00008	F	12A 12B 12C 12D F 1001, F 1013, F 1201, F 1213, F7063, F7064, F7065, F7066, F7067, F7068, F7069, F1401, F1402, F1403, F1404, F1405, F1406, F1407, F1408, F1409 (YC+YD+YF+YY) Compatibility with French A/G/A-services to be coordinated for use of 12D
410	OS	HNG00001	D	12D Not before the Year 2000. On a case by case coordination
416	OS	HRV00559	ROU	12A 12B 12C 12D
419	OS	AUT00009	AUT	12A LA LB LC LD LE LF LG LH LI
420	OS	CVA00005	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
422	OS	SMR00001	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
518	OS	CZE00002	POL	12A 12B 12C 12D In the border zone of 70 km every conversion of Allotment Plan to an Assignment requires bilateral coordination. In addition, the CZE Administration will avoid, unless previously coordinated, effective heights of T-DAB transmitters greater than 300 m.
519	OS	CZE00003	POL	12A 12B 12C 12D In the border zone of 70 km every conversion of Allotment Plan to an Assignment requires bilateral coordination. In addition, the CZE Administration will avoid, unless previously coordinated, effective heights of T-DAB transmitters greater than 300 m.
538	OS	CVA00005	HRV	12B 12C 12D

1366	OS	HOL05004	G	6B Coordination will not be required if a detailed engineering analysis shows that F/S does not exceed 7dBuV/m in a 7 kHz BW.
1372	OS	CZE00002	D	12A 12B 12C 12D 12B 12C 12D not before the year 2000
1399	OS	GRC00001	HRV	12D
1408	OS	HOL05000	BEL	12C Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1410	OS	HOL05002	BEL	11D Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1411	OS	HOL05003	BEL	12B Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1412	OS	HOL05004	BEL	6B Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1414	OS	BEL10002	HOL	11B Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1415	OS	BEL10003	HOL	11C Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1416	OS	BEL10004	HOL	6C Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1417	OS	BEL20002	HOL	9C The power has to be reduced at nearest borderpoint to the Netherlands by 3 dB
1418	OS	BEL20003	HOL	6D Landmobile services in the channels 6 and 11 and 12 will be considered as permitted during this Planning meeting. They will not restrict the introduction and used powers of T-DAB services in BEL and HOL. A bilateral agreement on all the use of landmobile services in band III, including timescales for reallocation, if necessary, of the present use in this band by landmobile services, will be made before 01.07.96
1440	OS	POL10011	CZE	9A 9B In the border zone of 70 km every conversion of the Allotment Plan to the assignment requires bilateral coordination. Additionally, the administration of Poland will not use high mountains for transmitter sites (heff <300m).
1441	OS	POL10012	CZE	9A 9B In the border zone of 70 km every conversion of the Allotmen Plan to the

				assignment requires bilateral coordination. Additionally, the administration of Poland will not use high mountains for transmitter sites (heff <300m).
1442	OS	POL10013	CZE	9A 9B In the border zone of 70 km every conversion of the Allotment Plan to the assignment requires bilateral coordination. Additionally, the administration of Poland will not use high mountains for transmitter sites (heff <300m).
1445	DAB	DNK10002	S_00019	B1- X B3- Y 1.5- X Presuming low power on Bornholm
1449	DAB	DNK10001	S_00019	B1- X B3- Y 1.5- X Provided 3 dB terrain protection in Sweden
1553	OS	AUT00002	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1554	OS	AUT00003	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1555	OS	AUT00004	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1556	OS	AUT00005	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1557	OS	AUT00006	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1558	OS	AUT00007	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1559	OS	AUT00008	I	12A 12B 12C 12D MT T2 in Italy MT will operate until 1997
1593	OS	AUT00004	D	12A Service T2
1661	OS	IRL10001	F	12A 12B 12C
1662	OS	IRL10001	IRL	12A 12B 12C TV services in channel J will cease operation prior to the introduction of T-DAB services (1998) channel J frequency range is 222-230 MHz
1663	OS	IRL10002	IRL	12A 12B 12C 12D TV services in channel J will cease operation prior to the introduction of T-DAB services (1998) channel J frequency range is 222-230 MHz
1708	OS	HOL05000	F	6B 6C 6D 11A 11B 11C 11D 12A 12B 12C 12D Subject to agreement on 12D
1710	OS	HOL05002	F	6B 6C 6D 11A 11B 11C 11D 12A 12B 12C 12D Subject to agreement on 12D
1711	OS	HOL05003	F	6B 6C 6D 11A 11B 11C 11D 12A 12B 12C 12D Subject to agreement on 12D
1712	OS	HOL05004	F	6B 6C 6D 11A 11B 11C 11D 12A 12B 12C 12D Subject to agreement on 12D
1715	OS	HOL05004	HOL	6B 6C 6D
1716	OS	AUT00002	SUI	12A 12B 12C 12D
1717	OS	AUT00004	SUI	12A 12B 12C 12D
1718	OS	AUT00005	SUI	12A 12B 12C 12D
1719	OS	AUT00007	SUI	12A 12B 12C 12D
1720	OS	AUT00008	SUI	12A 12B 12C 12D
1726	OS	LUX00001	I	5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
1730	OS	LUX00001	F	12C LB LE Subject to coordination before bringing 12C in service. LB and LE also to be coordinated.
1734	OS	HOL05004	D	6B before converting the allotment into an assignment bilateral coordination will take place about max ERP and antenna diagram of the T-DAB transmitters.
1735	OS	HOL05002	D	11D Regio 2 West-Netherlands
1737	OS	HOL05001	D	11C Noord-Holland (Regio 1) The network operators in Hol and D will agree upon the costs of the frequency change of the television transmitter Leer.
1738	OS	BEL10004	D	6C Germany accepts the interference to the TV-transmitters D__01537 and D__01976

1739	OS	BEL20002	D	9C Germany accepts the interference to the TV-transmitters D__01806
1740	OS	BEL20003	D	6D Germany accepts the interference to the TV-transmitters D__01675
1979	OS	D__00001	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1981	OS	D__00003	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1983	OS	D__00005	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) under condition of minimum separation distance of 5 km between any German T-DAB Transmitter and the borderline of Belgium.
1984	OS	D__00006	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1985	OS	D__00007	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1986	OS	D__00008	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1988	OS	D__00010	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
1989	OS	D__00011	BEL	12A 12B 12C 12D With respect to MT-Service MIL/MOB/TER (225-230 MHz). With respect to S1-Service MOB WBFM (Radio Microphones; 223-230 MHz). (12 D*) case by case coordination for the Asterisk ME-Service, MIL, AGA
2102	OS	D__00003	D	12A
2105	OS	D__00007	D	12A
2112	OS	D__00016	D	12A
2113	OS	HNG00001	HNG	12A 12B 12C 12D 13A 13B LC LD LE LF
2116	OS	HNG00004	HNG	12A 12B 12C 12D 13A 13B LC LD LE LF
2138	OS	HNG00001	HRV	12A 12B 12C 12D
2141	OS	HNG00004	HRV	12A 12B 12C 12D
2155	OS	HRV00564	HNG	12A 12B 12C 12D
2200	OS	HNG00002	SVN	12A 12B 12C 12D
2201	OS	HNG00001	SVN	12B 12C 12D
2203	OS	HNG00001	I	12A 12B 12C 12D
2205	OS	HNG00003	I	12B 12C 12D
2207	OS	HNG00006	I	12B 12C 12D
2766	OS	G__70001	IRL	12A 12B 12C 12D TV channel J in Letterkenny will remain in use until 1998
2768	OS	G__90001	IRL	12A 12B 12C 12D TV channel J in Letterkenny will remain in use until 1998
2769	OS	G__95001	IRL	12A 12B 12C 12D TV channel J in Letterkenny will remain in use until 1998
2777	OS	FIN10002	S	10B 10C PSM of the DAB req. may not exceed the ref model for DAB. Distance to be calculated from Mariehamn
2778	OS	FIN20002	S	10B 10C PSM of the DAB req. may not exceed the ref model for DAB. Distance to be calculated from Mariehamn
2806	OS	BEL10001	F	12A

2807	OS	BEL10002	F	11B on condition of no interference
2808	OS	BEL10003	F	11C on condition of no interference
2809	OS	BEL10004	F	6C
2811	OS	BEL20001	F	12B
2812	OS	BEL20002	F	9C LF LG LH LI on condition of no interference on VHF Band if 9C is used
2813	OS	BEL20003	F	6D LF LG LH LI on condition of no interference in VHF Band if 6d is used
2845	OS	LUX00001	BEL	12C
2847	OS	POR00500	F	12B
2851	OS	POR00503	POR	12A
2853	OS	POR00507	POR	11D
2855	OS	E__00002	F	11C
2856	OS	E__00003	F	11A restriction of 3 dB towards the sea.
2857	OS	E__00004	F	11D
2858	OS	E__00005	F	11C
2859	OS	E__00006	F	11A
2860	OS	E__00007	F	11D
2861	OS	E__00009	E	11D
2863	OS	E__00012	POR	11A the conversion of this allotment into assignments will be effective after 1.1.2000. Conversion before that date shall be reached by mutual agreement.
2865	OS	E__00014	F	11D
2866	OS	E__00018	F	11D
2893	OS	DNK10007	S	11C LB LC LD LI (11C) The total amount of outgoing interference from 11C in direction of Sweden/Karlshamm is reduced by 12 dB.
2894	OS	DNK10007	D	11C the total amount of outgoing interference from DNK10007 (Bornholm) in the direction of Germany is reduced by 15 dB.
2896	OS	SVN00165	SVN	12B 12C 12D LA LB LC LD LE LF
2897	OS	SVN00166	SVN	12B 12C 12D LA LB LC LD LE LF
2900	OS	SVN00166	F	12B 12C 12D Coordination for 12 D.
2937	OS	SVN00165	I	12B 12C 12D
2938	OS	SVN00166	I	12B 12C 12D
3211	OS	I__00001	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3212	OS	I__00297	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3213	OS	I__00298	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3214	OS	I__00299	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3215	OS	I__00300	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3216	OS	I__00301	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3217	OS	I__00302	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3218	OS	I__00303	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI

3219	OS	I__00304	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3220	OS	I__00305	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3221	OS	I__00306	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3222	OS	I__00307	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3223	OS	I__00308	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3224	OS	I__00309	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3225	OS	I__00310	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3226	OS	I__00311	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3227	OS	I__00312	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3228	OS	I__00313	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3229	OS	I__00314	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3230	OS	I__00315	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3231	OS	I__00316	I	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3260	OS	S__00017	DNK	12A 12B
3292	OS	POL10003	POL	11A 11B 11C
3293	OS	POL10017	POL	11A 11B 11C
3294	OS	POL10015	POL	8A
3299	OS	POL10010	POL	9A 9B
3311	OS	HNG00004	UKR	12D The Hungary side commits itself to lower the radiated T-DAB power by 2,7 dB in Block 12 D. In the case of interference of T-DAB with UKR transmitter operating in Television channel 12, the Hungary side commits itself to eliminate such interference.
3312	OS	HNG00004	ROU	12D This allotment could not be used without prior successful coordination in future between the ROU and HNG Administration.
3316	OS	DNK10002	POL	12C 12D Max heff on 12C = 50 m, max e.r.p. towards POL from DAB transmitters situated south of 55N03 are 20 dBW
3337	OS	BEL20001	I	12B
3346	OS	NOR00001	D	12D Interference potential of 0,7 dB will be reduced by Germany
3354	OS	S__00008	NOR	13A 13B 13C
3362	OS	POL10014	D	5D
3364	OS	D__00122	CZE	5C Under condition case by case coordination of all T-DAB assignments.
3365	OS	D__00012	POL	12D Under condition of buffer zone with 20km far from the boundary, within buffer zone case by case coordination of all T-DAB assignments.

3368	OS	POL10012	D	9B
3369	OS	POL10002	D	11A 11B 11C
3370	OS	POL10017	D	11A 11B 11C
3373	OS	POL10001	D	11A Under condition of buffer zone with 20km far from the boundary, within buffer zone case by case coordination of all T-DAB assignments.
3374	OS	POL10015	D	8A If TV-Transmitter Bad Freienwalde, Channel 8, is affected, Pol will help for necessary replanning.
3390	OS	POL10010	SVK	9A 9B The usage of this blocks depends from mutual coordinations
3391	OS	POL10011	SVK	9A 9B The usage of this blocks depends from mutual coordinations
3392	OS	POL10012	SVK	9A 9B The usage of this blocks depends from mutual coordinations
3393	OS	POL10013	SVK	9A 9B The usage of this blocks depends from mutual coordinations
3394	OS	SVK00001	POL	12A 12B 12C 12D The usage of this blocks depends from mutual coordinations
3396	OS	SVK00022	POL	12A 12B 12C 12D The usage of this blocks depends from mutual coordinations
3397	OS	SVK00023	POL	12A 12B 12C 12D The usage of this blocks depends from mutual coordinations
3398	OS	S__00017	POL	12A 12C 3 dB reduction of interference level in relation to the reference Model.
3401	OS	S__00017	S	12A
3402	OS	S__00022	S	12A
3404	OS	D__00122	D	5C
3405	OS	D__00121	D	11C
3407	OS	D__00009	D	8B 12A
3408	OS	D__00004	D	6C 12A
3411	OS	POL10014	CZE	5D Coordination is need case by case. Previous agreement for 5C in this area is cancelled.
3412	OS	GRC00004	I	12A 12B 12C Subject to coordination before implementation.
3413	OS	GRC00003	I	12A 12B 12C 12D Subject to coordination before implementation.
3414	OS	GRC00006	I	12A 12B 12C 12D Subject to coordination before implementation.
3415	OS	GRC00005	I	12A 12B 12C Subject to coordination before implementation.
3453	OS	E__00019	E	11C
3454	OS	E__00016	E	11D
3456	OS	E__00017	E	11D
3457	OS	E__00010	E	11A 11C 11D
3458	OS	E__00008	E	11A 11C 11D
3472	OS	BUL20001	BUL	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3475	OS	BUL20004	BUL	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3477	OS	BUL20006	BUL	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3478	OS	BUL20007	BUL	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI
3479	OS	BUL20008	BUL	2A 2B 2C 2D 3A 3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D 6A 6B 6C 6D 7A 7B 7C 7D 8A 8B 8C 8D 9A 9B 9C 9D 10A 10B 10C 10D 11A 11B 11C 11D 12A 12B 12C 12D 13A 13B 13C 13D 13E 13F LA LB LC LD LE LF LG LH LI

3480	OS	D__00006	I	12A 12B 12C 12D 12D Subject to coordination before implementation.
3482	OS	D__00008	I	12A 12B 12C 12D 12D Subject to coordination before implementation. T2
3486	OS	D__00015	I	12A 12B 12C 12D 12D Subject to coordination before implementation.
3506	OS	DNK10001	D	12A 12B 12C
3507	OS	D__00017	D	7B DAB in Neuwerk
3532	OS	D__00005	F	12A 12B 12C 12D 12 D* Subject to coordination before implementation as far as 230 - 240 MHz is concerned.
3533	OS	D__00006	F	12A 12B 12C
3534	OS	D__00007	F	12A 12B
3535	OS	D__00008	F	12A 12B 12C 12D 12D* Subject to coordination before implementation as far as 230 - 240 MHz is concerned.
3541	OS	D__00015	F	12A 12B 12C 12D 12D* Subject to coordination before implementation as far as 230 - 240 MHz is concerned.
3656	OS	HRV00561	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3657	OS	HRV00562	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3658	OS	HRV00563	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3659	OS	HRV00564	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3660	OS	HRV00565	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3661	OS	HRV00566	I	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI For 1.5 GHz case by case coordination is obligatory.
3714	OS	POL10009	UKR	6C The Polish administration commits itself to lower the radiated T-DAB power by 1,4 dB in block 6C in the border region with Ukraine. In the case of interference of T-DAB with Ukrainian TV-transmitter operating in channel 6 the Polish administration commits itself to eliminate such interference
3715	OS	POL10010	UKR	9A In the border zone of 80 km every conversion of the Allotment to the assignment requires bilateral coordination. Additionally the administration of Poland will not use high mountains for transmitter sites (Heff <300 m). In the case of interference of T-DAB to Ukrainian TV transmitter operating in Ch 9 the administration of Poland commits itself to eliminate such interference
3719	OS	NOR00001	RUS	12B 12C 12D Stations east of 26º E not to be introduced before after successful coordination.
3739	OS	G__60001	F	11D 12B
3742	OS	G__90001	F	11D 12B
3938	OS	AUT00003	SVK	12A 12B 12C 12D
3941	OS	GRC00001	GRC	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI Internal interferences not to be taken into account.
3946	OS	GRC00006	GRC	12A 12B 12C 12D Internal interferences not to be considered.
3950	OS	D__00014	D	8C 12A
3958	OS	TUR70000	BUL	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
3959	OS	TUR70001	BUL	12 A 12B 12C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
3973	OS	BUL10002	TUR	12 A 12 B 12 C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
3974	OS	BUL10003	TUR	12 A 12 B 12 C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
3975	OS	BUL10004	TUR	12 A 12 B 12 C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.

3983	OS	BUL20004	TUR	12 A 12 B 12 C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
3985	OS	BUL20006	TUR	12 A 12 B 12 C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
4067	DAB	S__00019	DNK 10001	B1- X B3 - Y 1,5-X Under condition that the e.r.p. towards DNK is reduced by 5 dB
4069	OS	CVA00005	F	For 12 D with additional communications between F and CVA when translation of allotment into assignment
4070	OS	POL10005	LTU	10A Polish administration will coordinate all stations within area of 100 km along the border. In the case interference caused by Polish T-DAB network to the TV service in channel R10 in Russia Polish Administration will commit to eliminate such interference
4071	OS	ROU00001	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4072	OS	ROU00002	ROU	12A 12B 12C 12D
4073	OS	ROU00003	ROU	12A 12B 12C 12D
4074	OS	ROU00004	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4075	OS	ROU00005	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4076	OS	ROU00006	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4077	OS	ROU00007	ROU	12A 12B 12C 12D
4078	OS	ROU00008	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4079	OS	ROU00009	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4080	OS	ROU00010	ROU	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4081	OS	ROU00011	ROU	12A 12B 12C 12D
4084	OS	ROU00003	BUL	12A 12B 12C 12D Subject of coordination before implementation.
4085	OS	ROU00004	BUL	12A 12B 12C 12D Subject of coordination before implementation.
4086	OS	ROU00005	BUL	12A 12B 12C 12D Subject of coordination before implementation.
4115	OS	POL10015	CZE	8A For protection of station Liberec in channel R8 POL will use horizontal polarisation in southern part of POL10015. Every station within buffer zone of 80 km along the border will be coordinated case by case.
4117	OS	POL10017	CZE	11B Poland will reduce interference casing by T-DAB network toward CZE by 4 dB in relation with reference network.
4118	OS	POL10014	SVK	5D
4155	OS	D__00014	CZE	8C
4157	OS	TUR70000	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4158	OS	TUR70001	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4159	OS	TUR70002	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4160	OS	TUR70003	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4161	OS	TUR70004	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4162	OS	TUR70005	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4164	OS	TUR70007	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4165	OS	TUR70008	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4166	OS	TUR70009	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4374	OS	BUL20007	I	12A 12B 12C 12D
4378	OS	I__00299	AUT	12A
4380	OS	I__00302	AUT	12A
4394	DAB	DNK10007	POL 10002	B1- X B3- Y 1,5- X The total amount of outgoing interference from Bornholm (DNK10007) is reduced by 6 dB in the direction of Poland. The total amount of outgoing interference from Poland (POL10002) is reduced by 6 dB in the direction of Bornholm.
4396	OS	GRC00001	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4397	OS	GRC00002	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4402	OS	GRC00007	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4403	OS	GRC00008	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4404	OS	GRC00009	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LI

4412	OS	TUR70007	GRC	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4413	OS	TUR70008	GRC	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4414	OS	TUR70009	GRC	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4422	OS	D__00120	DNK	5C
4423	OS	SMR00001	F	12A 12B 12C 12D LA LB LC LD LE LF LG LI
4439	OS	I__00303	F	12A 12B
4440	OS	I__00306	F	12A 12B
4441	OS	I__00316	F	12A 12B
4442	OS	I__00001	F	12A 12B 12C
4443	OS	I__00297	F	12A 12B 12C
4444	OS	I__00308	F	12A 12B 12C
4446	OS	I__00298	F	12A 12B 12C 12D
4447	OS	I__00299	F	12A 12B 12C 12D
4448	OS	I__00300	F	12A 12B 12C 12D
4449	OS	I__00301	F	12A 12B 12C 12D
4451	OS	I__00304	F	12A 12B 12C 12D
4453	OS	I__00307	F	12A 12B 12C 12D
4454	OS	I__00309	F	12A 12B 12C 12D
4456	OS	I__00312	F	12A 12B 12C 12D
4459	OS	I__00315	F	12A 12B 12C 12D
4480	OS	S__00021	S	12A
4485	OS	S__00013	D	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4486	OS	S__00023	D	12A 12B 12C 12D 13A 13B 13C 13D 13E 13F
4487	OS	D__00120	S	5C
4488	DAB	D__00011	S_00026	B1- X B3- Y 1,5- X Under condition of a buffer zone of 20 km from the neighbouring coast lines case by case coordination of all T-DAB assignment within this buffer zone is necessary.
4495	OS	D__00120	D	5C 10D
4497	OS	SUI00005	SUI	12A
4498	OS	SUI00004	SUI	12A
4499	OS	SUI00041	SUI	12A
4500	OS	SUI00001	I	12A 12B 12C 12D
4501	OS	SUI00002	I	12A 12B 12C 12D
4502	OS	SUI00003	I	12A 12B 12C 12D
4503	OS	SUI00004	I	12A 12B 12C 12D
4504	OS	SUI00005	I	12A 12B 12C 12D
4520	OS	NOR00006	D	12D 13D 13E 13F (12D*) Interference potential of 0,7 dB will be reduced by Germany.
4521	OS	NOR00008	RUS	12B 12C 12D Stations east of 26” E not to be introduced before after successful coordination.
4522	OS	NOR00002	RUS	12B 12C 13E Not to be introduced before after successful coordination.
4527	OS	I__00299	SUI	12A 12B 12C 12D
4529	OS	I__00301	SUI	12A 12B 12C 12D
4534	OS	SUI00003	SUI	12B 12C 12D
4535	OS	FIN10001	NOR	13B Before this allotment can be turned into assignments, these assignments must be coordinated with Norway.
4536	OS	FIN20003	EST	12B Before this allotment can be turned into assignments, these assignments must be coordinated with Estonia.
4547	OS	FIN10003	RUS	12C Before this allotment can be turned into assignments, these assignments must be coordinated with RUS.
4548	OS	FIN10001	RUS	13B Before this allotment can be turned into assignments these assignments must be coordinated with RUS .

4556	OS	I__00301	HRV	12A 12B 12C 12D LA LB LC LD LE LF LG LI (1.5 GHZ) Case by case coordination is obligatory.
4566	OS	I__00311	HRV	12A 12B 12C 12D LA LB LC LD LE LF LG LI (1.5 GHZ) Case by case coordination is obligatory.
4594	OS	S__00016	POL	12A Reduction of 3 dB in the direction of Poland.
4598	OS	LTU00001	RUS	13C Every conversion of the allotment to the assignment requires bilateral coordination. In the case of interference T-DAB to Russian stations and aeronautical services in channel 13 the LTU administration commits itself to eliminate such interference.
4599	OS	LTU00001	POL	13C Every conversion of the allotment to the assignment requires bilateral coordination. In the case of interference T-DAB to Poland stations and aeronautical services in channel 13 the LTU administration commits itself to eliminate such interference.
4605	OS	LVA00001	RUS	13B Before this allotment can be turned into assignment these assignment must be coordinated with the RUS .
4606	OS	EST00001	RUS	13C Before this allotment can be turned into assignment these assignment must be coordinated with the RUS .
4615	OS	BUL20001	ROU	12A 12B 12C 12D Subject to coordination before implementation
4616	OS	BUL20004	ROU	12A 12B 12C 12D Subject to coordination before implementation
4617	OS	BUL20006	ROU	12A 12B 12C 12D Subject to coordination before implementation
4618	OS	BUL20007	ROU	12A 12B 12C 12D Subject to coordination before implementation
4619	OS	BUL20008	ROU	12A 12B 12C 12D Subject to coordination before implementation
4673	OS	POL10003	D	11A 11B 11C
4697	OS	I__00301	SVN	12B 12C 12D
4700	OS	UKR00026	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4702	OS	UKR00028	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4707	OS	UKR00033	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4708	OS	UKR00034	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4709	OS	UKR00035	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4711	OS	UKR00037	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4712	OS	UKR00038	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4713	OS	UKR00039	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4714	OS	UKR00040	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4715	OS	UKR00041	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.

4716	OS	UKR00042	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4717	OS	UKR00043	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4718	OS	UKR00044	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4719	OS	UKR00045	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4720	OS	UKR00046	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4721	OS	UKR00047	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4722	OS	UKR00048	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4723	OS	UKR00049	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4724	OS	UKR00050	RUS	13A 13B 13C Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4725	OS	UKR00026	POL	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4730	OS	UKR00031	POL	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4731	OS	UKR00032	POL	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4732	OS	UKR00033	POL	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4750	OS	UKR00026	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4753	OS	UKR00029	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4755	OS	UKR00031	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4756	OS	UKR00032	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4757	OS	UKR00033	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4758	OS	UKR00034	SVK	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4775	OS	UKR00026	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4776	OS	UKR00027	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4777	OS	UKR00028	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.

4778	OS	UKR00029	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4779	OS	UKR00030	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4780	OS	UKR00031	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4781	OS	UKR00032	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4782	OS	UKR00033	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4783	OS	UKR00034	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4784	OS	UKR00035	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4785	OS	UKR00036	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4786	OS	UKR00037	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4787	OS	UKR00038	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4791	OS	UKR00042	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4792	OS	UKR00043	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4793	OS	UKR00044	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4796	OS	UKR00047	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4799	OS	UKR00050	ROU	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4801	OS	UKR00027	HNG	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4803	OS	UKR00029	HNG	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4804	OS	UKR00030	HNG	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4805	OS	UKR00031	HNG	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4806	OS	UKR00032	HNG	13A 13B 13C 13D 13E 13F Ukraine side will effectuate T-DAB in the band of TV channel 13 after 2015 year and will coordinate with the other side each frequency assignment.
4840	OS	S__00016	S	12A
4845	OS	I__00333	GRC	LA LB LC LD LE LF LG LH LI
4848	OS	ROU00003	TUR	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.
4868	OS	TUR70000	ROU	12A 12B 12C 12D LA LB LC LD LE LF LG LH LI Subject to coordination before implementation.

4890	OS	SVK00001	I	12A 12B 12C 12D
4903	OS	SVK00021	AUT	12A LG
4906	OS	SVK00001	UKR	12A 12B 12C 12D The Slovak side commits it self to lower the radiated T-DAB power in blocks (12A-12B). In the case of interference of T-DAB with UKR transmitters operating in TV Channel 12, the Slovak side commits itself to eliminate such interference. Each assignment will be after mutual coordination
4909	OS	SVK00023	UKR	12A 12B 12C 12D The Slovak side commits it self to lower the radiated T-DAB power in blocks (12A-12B). In the case of interference of T-DAB with UKR transmitters operating in TV Channel 12, the Slovak side commits itself to eliminate such interference. Each assignment will be after mutual coordination
4912	OS	D__00019	D	9C 2. Priorität in Helgoland interference 15 dB reduced compared with the reference network.
4913	OS	G__60001	BEL	11D 12B TV (CH11) in Brüssel out of service before date of entry into force of the special arrangement
4914	OS	G__90001	BEL	11D 12B TV (CH11) in Brüssel out of service before date of entry into force of the special arrangement
4923	OS	I__00302	SVN	12A 12B 12C 12D
4925	DAB	I__00302	HRV00565	B1- X B3 - Y 1,5-X Subject to coordination
4930	OS	I__00311	F	12A 12B 12C 12D 12D* Italy accepts the principle of reduction of ERP towards Corsica and this will be subject to coordination.
4934	OS	S__00022	NOR	12A Any modification required on Halden TV station channel 11 is to be borne by Sweden.
4959	OS	MKD00001	I	12C
4960	OS	BIH00001	I	12B
4962	OS	BIH00001	SVN	12B
4963	OS	DNK10006	D	13E Subject to later coordination with Germany.
4964	OS	DNK10005	D	11C The total amount of outgoing interference from DNK10005 in the direction of the coverage area D222 of the TV-Transmitter in Schwerin will be reduced by 7 dB.
4965	OS	DNK10005	S	11C Coordination by Denmark required.
4995	OS	SUI00002	F	12C Subject to coordination before bringing 12C into service.
4996	OS	POL10005	RUS	10A Polish administration will coordinate all stations within area of 100 km along the border. In the case interference caused by Polish T-DAB network to the TV service in channel R10 in Russia Polish Administration will commit to eliminate such interference.
4997	OS	FIN20018	RUS	12D Subject to coordination.
4998	OS	FIN20010	RUS	12D Subject to coordination.
4999	OS	FIN20012	RUS	10C Subject to coordination.
5000	OS	FIN20017	RUS	12D Subject to coordination.

Supplementary Information B

to the

Special Arrangement
of the European Conference of Postal and Telecommunications Administrations (CEPT)
relating to the use of the bands 47 - 68 MHz, 87.5 - 108 MHz, 174 - 230 MHz and
230 - 240 MHz for
Terrestrial Digital Audio Broadcasting (T-DAB)

List of Test Points

This List is available in electronic form from the Plan Management Body.

ALB00001
019E22 41N51 019E22 42N07 019E18 42N11 019E42 42N39 019E49 42N29
020E03 42N33 020E14 42N20 020E31 42N13 020E37 41N59 020E31 41N37
020E27 41N32 020E32 41N25 020E30 41N18 020E36 41N06 020E40 41N06
020E45 40N56 020E51 40N57 020E58 40N55 020E58 40N46 021E01 40N41
021E01 40N33 020E58 40N29 020E48 40N28 020E42 40N14 020E39 40N07
020E24 40N02 020E21 40N00 020E25 39N51 020E17 39N50 020E11 39N40
019E59 39N44 019E55 39N56 019E19 40N25 019E19 40N40 019E25 40N58
019E30 41N18 019E23 41N23 019E30 41N32 019E27 41N36 019E36 41N39
019E35 41N48 019E28 41N53

AUT00002
015E04 46N39 014E49 46N31 014E35 46N23 014E22 46N26 013E55 46N31
013E31 46N33 013E04 46N36 012E42 46N39 012E58 46N48 012E40 47N06
012E57 47N03 013E20 47N06 013E47 46N56 014E12 47N04 014E23 46N59
014E50 47N03 015E02 46N55

AUT00003
014E42 48N35 014E49 48N46 014E59 48N47 015E00 49N01 015E17 49N00
015E50 48N53 016E12 48N45 016E33 48N49 016E55 48N41 016E57 48N34
016E51 48N24 017E04 48N07 016E58 48N01 016E52 48N04 016E35 47N53
016E31 47N57 016E18 47N47 016E23 47N38 016E20 47N31 016E10 47N25
015E51 47N34 015E21 47N50 014E55 47N43 014E44 47N45 014E44 47N56
014E30 48N00 014E32 48N14 014E42 48N10 014E58 48N14 014E55 48N30

AUT00004
014E42 48N35 014E55 48N30 014E58 48N14 014E42 48N10 014E32 48N14
014E30 48N00 014E44 47N56 014E44 47N45 014E18 47N36 014E03 47N40
013E45 47N42 013E43 47N28 013E35 47N28 013E29 47N32 013E33 47N43
013E17 47N50 013E22 47N59 012E52 48N00 012E45 48N07 013E00 48N15
013E23 48N22 013E31 48N35 013E42 48N31 013E53 48N46 014E01 48N38
014E20 48N33 014E27 48N38

AUT00005
012E52 48N00 013E22 47N59 013E17 47N50 013E33 47N43 013E29 47N32
013E35 47N28 013E36 47N17 013E49 47N18 014E00 47N08 013E47 46N56
013E20 47N06 012E57 47N03 012E40 47N06 012E14 47N04 012E06 47N18
012E30 47N21 012E42 47N29 012E34 47N38 012E44 47N41 012E59 47N29
013E04 47N42 012E55 47N44 013E00 47N52

AUT00006
016E00 46N49 016E02 46N41 015E48 46N43 015E37 46N41 015E30 46N37
015E04 46N39 015E02 46N55 014E50 47N03 014E23 46N59 014E12 47N04
013E47 46N56 014E00 47N08 013E49 47N18 013E36 47N17 013E35 47N28
013E43 47N28 013E45 47N42 014E03 47N40 014E18 47N36 014E44 47N45
014E55 47N43 015E21 47N50 015E51 47N34 016E10 47N25 016E01 47N22
016E07 47N09 016E09 46N59

AUT00007
012E34 47N38 012E42 47N29 012E30 47N21 012E06 47N18 012E14 47N04
012E40 47N06 012E58 46N48 012E42 46N39 012E24 46N42 012E10 46N57
011E57 47N02 011E30 47N00 011E10 46N58 010E59 46N46 010E28 46N52
010E20 46N59 010E09 46N51 010E08 47N01 010E13 47N09 010E11 47N16
010E28 47N26 010E28 47N34 010E52 47N32 010E59 47N25 011E12 47N26
011E23 47N27 011E37 47N35 012E11 47N36 012E15 47N43

AUT00008
010E11 47N16 010E13 47N09 010E08 47N01 010E09 46N51 009E52 46N57
009E37 47N03 009E32 47N16 009E39 47N22 009E34 47N30 009E49 47N35
009E58 47N32

AUT02009
016E14 48N07 016E13 48N16 016E24 48N19 016E33 48N16 016E34 48N08
016E26 48N07

AUT03009
016E14 48N07 016E13 48N16 016E24 48N19 016E33 48N16 016E34 48N08
016E26 48N07

BEL10001
003E22 51N22 003E23 51N17 003E35 51N18 003E48 51N15 004E04 51N15
004E13 51N22 004E25 51N23 004E23 51N27 004E32 51N29 004E35 51N26
004E47 51N30 004E52 51N25 005E02 51N29 005E15 51N16 005E29 51N18
005E51 51N09 005E46 51N00 005E42 50N48 005E55 50N44 005E37 50N47
005E23 50N45 005E06 50N43 004E48 50N47 004E28 50N45 004E21 50N51
004E18 50N42 004E02 50N42 003E41 50N46 003E28 50N46 003E09 50N47
003E00 50N49 002E51 50N43 002E38 50N49 002E36 50N55 002E33 51N06
002E55 51N14

BEL10002

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004E30 50N50 004E20 50N44 004E07 50N43 004E01 50N42 003E55 50N44
003E46 50N45 003E35 50N44 003E28 50N45 003E19 50N43 003E09 50N46
003E00 50N47 002E50 50N43 002E47 50N45 002E38 50N48 002E35 50N55
002E33 51N00 002E32 51N05 002E45 51N10 002E55 51N14 003E08 51N19
003E21 51N21 003E23 51N16 003E31 51N15 003E31 51N16 003E38 51N17
003E47 51N15 003E47 51N13 003E55 51N13 004E07 51N15 004E13 51N21
004E30 51N29

BEL10003

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004E13 51N21 004E24 51N23 004E22 51N27 004E31 51N29 004E35 51N26
004E47 51N30 004E52 51N25 005E01 51N29 005E15 51N15 005E25 51N17
005E20 51N10 005E20 51N04 005E20 50N56 005E20 50N50 005E22 50N45
005E16 50N44 005E05 50N43 004E48 50N46 004E39 50N46 004E28 50N45
004E18 50N42 004E01 50N42 003E41 50N45 003E22 50N43 003E09 50N46
003E00 50N48 002E50 50N43 002E38 50N48 002E35 50N55 002E32 51N05
002E55 51N14

BEL10004

003E21 51N21 003E23 51N16 003E34 51N17 003E47 51N15 004E03 51N15
004E13 51N21 004E24 51N23 004E22 51N27 004E31 51N29 004E35 51N26
004E47 51N30 004E52 51N25 005E01 51N29 005E15 51N15 005E28 51N17
005E50 51N09 005E46 51N00 005E41 50N47 005E54 50N44 005E37 50N46
005E22 50N45 005E05 50N43 004E48 50N46 004E39 50N46 004E28 50N45
004E18 50N42 004E01 50N42 003E41 50N45 003E22 50N43 003E09 50N46
003E00 50N48 002E50 50N43 002E38 50N48 002E35 50N55 002E32 51N05
002E55 51N14

BEL20001

002E51 50N43 003E00 50N49 003E09 50N47 003E28 50N46 003E41 50N46
004E02 50N42 004E18 50N42 004E21 50N51 004E28 50N45 004E48 50N47
005E06 50N43 005E23 50N45 005E37 50N47 005E55 50N44 006E14 50N36
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005E28 49N31 005E10 49N43 004E53 49N48 004E50 49N58 004E51 50N09
004E33 49N58 004E12 49N59 004E12 50N07 004E10 50N16 003E53 50N22
003E41 50N21 003E36 50N30 003E20 50N31 003E14 50N44 003E02 50N46

BEL20002

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004E15 50N37 004E06 50N42 004E18 50N42 004E21 50N51 004E28 50N45
004E48 50N47

BEL20003

004E06 50N42 004E21 50N51 004E48 50N47 004E34 50N34 004E36 50N24
004E28 50N18 004E17 50N16 004E23 50N12 004E24 50N05 004E33 49N59
004E12 49N59 004E14 50N05 004E08 50N08 004E12 50N16 004E02 50N22
003E53 50N21 003E41 50N20 003E40 50N27 003E31 50N32 003E17 50N33
003E15 50N44 003E02 50N46 002E51 50N44 002E59 50N48 003E09 50N46
003E26 50N45 003E41 50N46 003E58 50N42

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004E28 7,50N 004E23 4,50N 004E20 2,50N 004E13 0,50N 004E09 1,50N
003E28 6,50N 003E54 6,50N 003E56 5,50N 004E05 7,50N 004E06 9,50N
004E05 4,50N 004E09 9,50N 004E15 7,51N 004E20 7,51N 004E29 3,51N
004E41 2,51N 004E44 2,51N 004E55 6,51N 004E57 9,51N 005E06 3,51N
005E04 0,50N 005E04 1,50N 005E10 2,50N 005E08 2,50N 004E59 8,50N

BIH00001

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016E19 44N08 016E06 44N30 015E51 44N41 015E50 44N47 015E43 44N52
015E46 45N02 015E46 45N13 016E05 45N08 016E21 45N01 016E34 45N14
016E49 45N10 016E59 45N16 017E15 45N09 017E21 45N11 017E32 45N05
017E41 45N08 017E52 45N02 018E03 45N08 018E10 45N04 018E17 45N08
018E32 45N03 018E40 45N06 018E48 44N57 018E52 44N51 019E01 44N50
019E22 44N52 019E10 44N30 019E11 44N17 019E21 44N15 019E38 44N00
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018E56 43N20 018E46 43N14 018E46 43N00 018E34 42N58 018E30 42N50
018E38 42N40 018E34 42N26 018E25 42N35 018E17 42N37 018E00 42N48
017E52 42N54

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023E35 41N25 023E21 41N24 023E09 41N21 022E58 41N21 023E01 41N43
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BUL20004
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027E35 41N56 027E17 42N06 027E05 42N06 026E46 41N58 026E39 41N59
026E32 41N50 026E24 41N50 026E18 41N43 026E11 41N46 026E03 41N40
026E09 41N23 025E46 41N19 025E37 41N19

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027E46 43N57 027E40 44N01 027E27 44N01 027E17 44N06 027E03 44N08
026E44 44N04 026E20 44N01 026E03 43N54 025E49 43N42

BUL20007
023E48 43N47 023E12 42N53 022E42 42N53 023E01 43N09 022E32 43N32
022E26 43N59 022E40 44N12 022E59 44N03 022E47 43N53 023E03 43N47
023E22 43N50 023E38 43N47

BUL20008
023E48 43N47 023E12 42N53 023E56 42N52 024E07 42N32 025E12 42N32
026E06 42N55 025E30 43N38 024E54 43N42 024E31 43N44 024E09 43N41

CVA00005
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CYP00001
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032E56 35N20 032E55 35N22 033E08 35N22 033E35 35N21 033E44 35N24
034E09 35N32 034E26 35N39 034E34 35N40 034E05 35N23 034E04 35N20
033E56 35N18 033E54 35N11 034E06 34N58 033E54 34N56 033E40 34N57
033E39 34N51 033E31 34N47 033E16 34N41 033E05 34N41 033E01 34N35
032E58 34N34 032E55 34N39 032E45 34N40 032E28 34N42 032E24 34N49
032E20 34N53

CYP00002
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032E56 35N20 032E55 35N22 033E08 35N22 033E35 35N21 033E44 35N24
034E09 35N32 034E26 35N39 034E34 35N40 034E05 35N23 034E04 35N20
033E56 35N18 033E54 35N11 034E06 34N58 033E54 34N56 033E40 34N57
033E39 34N51 033E31 34N47 033E16 34N41 033E05 34N41 033E01 34N35
032E58 34N34 032E55 34N39 032E45 34N40 032E28 34N42 032E24 34N49
032E20 34N53

CZE00002
013E02 50N29 013E35 50N42 014E10 50N51 014E17 51N02 014E34 51N00
014E47 50N48 015E02 51N01 015E19 50N58 015E26 50N48 016E27 50N37
016E20 50N21 016E42 50N06 015E00 49N00 014E56 48N46 014E41 48N35
014E03 48N34 013E44 48N52 013E12 49N07 012E49 49N19 012E25 49N45
012E29 49N58 012E13 50N04 012E06 50N14 012E05 50N20 012E22 50N15
012E32 50N24 012E52 50N27

CZE00003
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018E03 50N04 018E34 49N55 018E48 49N40 018E52 49N32 018E30 49N26
018E08 49N05 017E37 48N49 017E09 48N47 016E57 48N36 016E54 48N43
016E30 48N48 016E22 48N43 016E09 48N44 015E49 48N53 015E44 48N50
015E18 48N59 015E11 48N56

DNK10001
010E36 57N46 010E50 57N35 011E12 57N24 011E14 57N12 011E22 56N59
011E30 56N51 011E44 56N44 011E50 56N29 011E48 56N18 011E57 56N10
012E13 56N10 012E22 56N09 012E29 56N05 012E38 56N03 012E38 55N55
012E51 55N38 012E38 55N20 012E38 55N09 012E40 55N04 012E40 54N56
012E33 54N52 012E24 54N50 012E18 54N45 012E10 54N41 012E07 54N38
012E01 54N35 011E53 54N35 011E41 54N36 011E37 54N36 011E19 54N38
011E06 54N42 010E56 54N42 010E45 54N45 010E32 54N48 010E22 54N50
010E13 54N51 010E01 54N52 009E53 54N52 009E44 54N51 009E36 54N54
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008E38 55N01 008E36 55N03 008E34 55N05 008E30 55N06 008E22 55N13
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	009E45 57N34	010E00 57N39	010E10 57N44	010E25 57N47	
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	007W05 62N45				
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	010E08 55N00	009E47 55N21	009E43 55N29	010E10 55N39	010E41 55N42
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	007E48 56N10	007E52 56N51	008E26 57N17	009E17 57N28	010E07 57N48
	010E40 57N46	010E51 57N29	011E11 57N18	011E22 56N56	011E41 56N44
	011E18 56N20	010E49 56N04	010E40 55N48	010E21 55N44	010E02 55N41
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	010E00 54N56				
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	009E44 53N33				
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	008E57 53N07	008E58 53N02	008E56 53N00	008E51 53N01	008E47 53N01
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	008E32 53N32				
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	010E28 51N34				
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	013E04 51N37	013E12 51N24	013E27 51N25	013E43 51N22	
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	013E08 54N16				
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	014E19 51N03	014E18 50N54	014E03 50N49	013E52 50N45	
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	010E55 47N39	010E47 47N40	010E50 47N44	010E43 47N42	
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	012E23 48N51	012E16 48N52	011E54 48N42	011E40 48N43	011E44 48N56
	011E36 48N57	011E32 49N04	011E23 49N05	011E16 49N12	011E17 49N16
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	025E30 59N38	025E42 59N40	025E50 59N33	025E52 59N37	026E03 59N37
	026E30 59N31	026E35 59N33	026E57 59N26	027E22 59N27	027E47 59N24
	028E03 59N28	028E13 59N22	027E53 59N15	027E43 59N00	027E20 58N47
	027E32 58N23	027E30 58N14	027E38 58N02	027E50 57N55	027E35 57N51

	027E21 57N33	026E56 57N38	026E37 57N31	026E17 57N37	026E11 57N44
	026E01 57N47	026E02 57N52	025E40 57N55	025E18 58N05	025E18 58N00
	025E11 58N06	025E04 58N03	024E21 57N53	023E15 57N48	022E30 58N08
	022E02 57N54	021E58 57N59	022E10 58N10	021E46 58N20	021E50 58N30
	022E13 58N33	022E32 58N38	022E27 58N49	022E02 58N56	022E24 58N59
	022E37 59N05	022E47 59N01	023E10 59N03	023E27 59N04	023E29 59N11
	023E22 59N18	023E43 59N14	023E53 59N21	024E13 59N24	024E23 59N28
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	006W29 42N57	006W49 42N56	007W10 43N23		
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	003W40 43N11	003W58 42N57	003W51 42N58	003W50 42N49	004W05 42N47
	004W22 43N03	004W44 43N02	004W49 43N12		
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	003W23 43N14	003W08 43N21	002W44 43N26	002W22 43N18	002W06 43N19
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	001W20 43N04	000W46 42N56	000W55 42N44	001W17 42N35	001W32 42N11
	002W25 42N31	002W12 42N52			
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	002W07 42N02	002W09 41N43	002W26 41N43	002W26 41N58	002W55 42N03
	003W07 42N13	003W06 42N37			
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	000E32 41N49	000E19 41N39	000E26 41N17	000E19 41N05	000E09 40N46
	000W24 40N41	000W18 40N33	000W24 40N25	000W32 40N18	000W54 39N57
	001W00 40N01	001W07 40N07	001W17 40N14	001W26 40N09	001W47 40N23
	001W32 40N35	001W32 40N51	001W57 41N11	002W02 41N10	002W08 41N12
	002W10 41N21	001W57 41N25	001W58 41N35	001W47 41N43	001W49 41N58
	001W25 41N54	001W15 42N33	000W53 42N44		
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	000E56 40N44	000E36 40N38	000E32 40N33	000E11 40N46	000E21 41N05
	000E28 41N17	000E21 41N39	000E34 41N49	000E39 42N15	
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	000W04 38N54	000E11 38N49	000E14 38N45	000W08 38N33	000W29 38N13
	000W45 37N52	001W01 38N06	001W01 38N40	000W54 38N48	000W57 38N57
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	001W26 40N07	001W17 40N12	001W03 40N03	001W02 39N59	000W54 39N55
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	001W26 38N42	001W42 38N23	002W02 38N18	002W20 38N02	002W30 38N06
	002W26 38N16	002W47 38N33	004W16 38N25	005W02 38N44	004W40 39N28
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	003W40 40N07	003W54 39N53	003W31 40N02	003W03 40N06	003W07 40N26
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	001W40 38N21	001W39 38N17	001W28 38N21	001W24 38N40	
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	002W12 36N44	002W28 36N50	002W44 36N43	003W13 36N46	003W26 36N43
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	007W04 38N12	007W17 38N31	006W57 39N03	007W07 39N08	007W30 39N39
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	004W16 40N36				
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	006W30 41N39	006W32 41N56	006W57 41N57	006W47 42N16	007W03 42N31
	006W51 42N52	006W29 42N55	006W21 43N03	005W59 43N03	005W45 42N57
	004W49 43N10	004W45 42N59	004W24 43N01	004W07 42N45	003W48 42N47
	003W49 42N58	003W40 43N09	003W18 42N52	003W09 42N13	002W57 42N01
	002W28 41N56	002W31 41N29	003W04 41N35	003W44 41N17	004W41 40N39
	005W19 40N27				
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	006W59 41N59	008W09 41N50	008W10 42N10	008W51 41N52	009W15 42N53
	009W17 43N02	008W50 43N21	008W24 43N22	008W18 43N33	007W53 43N45
	007W42 43N46	007W16 43N33			
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E__00017	002W53 35N15	002W53 35N19	002W57 35N18		
E__00018	004E16 39N47	004E16 39N52	004E12 39N59	004E04 40N05	003E48 40N05
	003E12 39N59	002E42 39N49	002E20 39N36	001E32 39N08	001E20 39N05
	001E06 38N56	001E24 38N39	001E36 38N40	003E02 39N16	003E14 39N23
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	015W37 27N45	015W51 27N49	016W41 28N01	017W11 28N02	017W58 27N38
	018W08 27N44	017W49 28N26	017W59 28N46	017W45 28N50	017W03 28N25
	016W19 28N34	016W08 28N33	015W26 28N33	014W14 28N41	014W02 28N41
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E__99100	013W31 29N23	013W27 29N11	013W27 28N45	013W58 28N05	014W32 28N05
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	018W08 27N44	017W49 28N26	017W59 28N46	017W45 28N50	017W03 28N25
	016W19 28N34	016W08 28N33	015W26 28N33	014W14 28N41	014W02 28N41
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	022E44 63N57				
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	021E03 60N12				
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	029E28 62N49	028E58 62N04	028E05 61N39	026E32 61N08	025E01 60N36
	023E58 60N44	022E45 59N46	021E19 59N43	020E50 60N41	021E16 61N19
	021E10 61N52	022E09 62N37	023E20 62N51	024E09 63N41	023E21 64N19
	024E32 65N15	023E39 66N13	023E36 67N09	023E15 67N56	021E37 68N37
	020E25 69N08	021E29 69N26	022E53 68N39	025E22 68N49	026E12 70N04
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	026E46 61N15	027E50 61N33	028E50 61N59	029E11 62N24	029E30 62N50
	028E56 63N51	028E06 64N41	029E09 65N28		
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	027E49 67N34				
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	021E03 60N13				
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	023E14 61N00	023E09 60N46	023E53 60N39	023E19 60N11	022E45 59N45
FIN20004	021E16 61N57	021E39 62N01	022E50 62N16	022E36 61N33	023E14 61N00
	022E07 60N54	021E16 61N08			
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	025E06 60N48				
FIN20006	023E14 61N00	022E36 61N33	022E50 62N16	024E01 62N22	024E47 62N02
	024E54 61N19	024E17 61N11			
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	026E06 60N54				
FIN20008	026E36 60N15	026E29 60N36	026E06 60N54	026E30 61N16	027E13 61N10
	027E58 60N40	027E36 60N19			
FIN20009	027E58 60N40	027E13 61N10	028E41 61N30	029E51 61N40	029E15 61N16
	028E28 60N55				
FIN20010	026E30 61N16	026E19 61N37	026E14 62N07	026E43 62N26	027E43 62N22
	028E39 62N39	029E21 62N19	029E51 61N40	028E41 61N30	027E13 61N10
FIN20011	026E43 62N26	026E16 62N56	026E09 63N27	026E51 64N02	028E22 63N44
	028E42 63N13	028E39 62N39	027E43 62N22		
FIN20012	029E51 61N40	029E21 62N19	028E39 62N39	028E42 63N13	028E22 63N44
	030E00 63N44	030E34 63N27	031E35 62N54	030E47 62N15	
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	025E02 63N28	026E09 63N27	026E16 62N56	026E43 62N26	026E14 62N07
	026E19 61N37	025E38 61N41			
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	024E01 62N22	022E50 62N16			
FIN20015	021E16 61N57	020E50 62N47	020E48 63N25	022E12 63N33	022E45 63N57
	023E29 63N38	023E42 63N23	022E25 63N05	021E45 62N44	021E39 62N01
FIN20016	023E27 64N20	024E31 63N45	025E02 63N28	024E22 63N07	023E42 63N23
	023E29 63N38	022E45 63N57			
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	026E51 64N02	026E09 63N27	025E02 63N28	024E31 63N45	023E27 64N20
	024E19 64N41	024E30 65N01			
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025E53 69N41 026E28 69N56 027E54 70N09 028E26 69N52 029E13 69N43
029E20 69N29 028E31 68N33 028E35 68N13 027E51 67N38 027E58 66N58
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026E04 65N46 025E25 65N45 024E49 65N29

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026E36 60N15 025E48 60N02

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028E10 66N28 027E55 67N03 027E48 67N39

FIN20022
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FIN30001
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024E12 60N24 024E28 60N29 024E46 60N32 025E07 60N35

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	000E17 51N27	000E26 51N27	000E28 51N29		
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	000E17 51N27	000E18 51N41	000E21 51N52		
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	000E35 50N50	000E15 50N44	000W08 50N49		
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	000W26 50N48	000W47 50N43	001W00 50N47	000W56 51N00	000W30 50N57
G__50009	003W53 51N56	003W33 51N56	003W27 51N39	003W35 51N26	003W59 51N33
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G__50010	000E07 51N47	000E25 51N37	000E20 51N18	000W12 51N14	000W34 51N14
	000W45 51N20	000W37 51N39	000W20 51N45		
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	000W45 51N20	000W37 51N39	000W20 51N45		
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	000W45 51N20	000W37 51N39	000W20 51N45		
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	000W35 52N28	000W35 52N45			
G__50014	001W12 53N14	000W42 53N08	000W43 52N56	001W04 52N47	001W27 52N45
	001W25 52N58	001W27 53N12			
G__50015	001E37 52N47	0=001E 8,52N	001E31 52N12	001E15 52N15	000E54 52N34
	001E03 52N58	001E18 52N52			
G__50016	001E37 52N47	001E45 52N37	001E45 52N23	001E38 52N12	001E31 52N12
G__50017	001W16 52N48	000W55 52N49	000W39 52N48	000W39 52N38	000W52 52N28
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G__50023
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000W51 54N17 000W43 54N26

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G__50039 002W52 53N35 002W43 53N34 002W28 53N23 002W42 53N12 002W59 53N06
003W25 53N22 003W02 53N34

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UKR00031	025E02 47N43	025E49 48N32	027E39 48N27	026E42 48N17	026E25 48N10
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	030E38 49N15				
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UKR00039	031E42 50N08	030E36 51N15	030E35 51N52	030E59 52N00	031E50 52N07
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	035E29 48N58	034E21 48N30			
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	035E48 50N21				
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UKR00044	031E57 46N38	032E37 46N59	032E55 47N29	034E23 47N30	035E06 46N16
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	037E09 48N00	035E34 47N59			
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	035E11 46N05				
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