

Draft ECP on AI 1.10

APPENDIX 30B (Rev. WRC-2000)

**Provisions and associated Plan for the fixed-satellite service
in the frequency bands 4 500-4 800 MHz, 6 725-7 025 MHz,
10.70-10.95 GHz, 11.20-11.45 GHz and 12.75-13.25 GHz**

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Note by the Secretariat: Reference to an Article with the number in roman is referring to an Article in this Appendix.

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[Editorial note: this Table of contents needs to be updated in view of the modification proposed in Appendix **30B**]

ARTICLE 1

Objective of the provisions and associated Plan

NOC 1.1 The objective of the procedures prescribed in this Appendix is to guarantee in practice, for all countries, equitable access to the geostationary-satellite orbit in the frequency bands of the fixed-satellite service covered by this Appendix.

MOD 1.2 The procedures prescribed in this Appendix shall in no way prevent the implementation of assignments in conformity with the allotments of the Plan.

ARTICLE 2

Definitions

NOC 2.1 *Conference*: World Administrative Radio Conference on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing It, First Session, Geneva, 1985; Second Session, Geneva, 1988.

MOD 2.2 *Plan*: The Plan for the fixed-satellite service in the frequency bands contained in this Appendix, consisting of the national allotments;

MOD 2.3 *Allotment*: For the purpose of this Appendix, an allotment comprises:

- a nominal orbital position;
- a bandwidth of 800 MHz (up-link and down-link) in the frequency bands listed in Article 3 of this Appendix;
- a service area for national coverage.

MOD 2.4 *Existing systems*: Those satellite systems, in the frequency bands covered by this Appendix, which are identified in Resolution [XXX] (WRC 07).

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MOD 2.6 *Additional systems*: For the application of the provisions of this Appendix, additional systems shall be understood as those assignments of an administration which are not stemming from the conversion of an allotment into an assignment. Additional systems may also be submitted on behalf of a group of named administrations with one ^{ADD 2.6A} designated administration to act as the notifying administration in respect of the ITU.

ADD 2.7 *List of assignments (hereafter called in short the "List")*: The List of assignments associated with the Plan, containing:

a) assignments derived from allotments;

ADD 2.6A Whenever, under this provision, an administration acts on behalf of a group of named administrations, all members of that group retain the right to respond in respect of their own networks or systems.

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a) . Part A, containing

Deleted: b) . Part B, containing the networks of existing systems

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– generalized parameters as defined in Annex 1 to this Appendix;¶
– a predetermined arc (PDA).

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a) . which are recorded in the Master International Frequency Register (MIFR); or¶
b) . for which the coordination procedure has been initiated; or¶
c) . for which the information relating to advance publication was received by the Radiocommunication Bureau before 8 August 1985,¶ and which in all cases are listed in Part B of the Plan

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Deleted: 2.5 . *Subregional systems*: For the purpose of the application of the provisions of this Appendix, a subregional system is a satellite system created by agreement among neighbouring countries Member States of the ITU or their authorized telecommunications operating agencies and intended to provide domestic or subregional services within the geographical areas of the countries concerned.

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Deleted: a) . which has a requirement whose characteristics differ from those used in the preparation of Part A of the Plan; any such requirement shall be limited to the national coverage, taking into account technical constraints, of the administration concerned, unless otherwise agreed. Additionally, such requirement can be met only if the allotment of the interested administration, or part of this allotment, has been converted into an assignment, or if the requirement cannot be met by the conversion of the allotment into an assignment;¶

b) . which requires the use of a [...] [1]

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b) assignments relating to those satellite systems, in the frequency bands covered by this Appendix, which are identified in Resolution [XXX] (WRC-07) existing systems, as defined in § 2.4;

c) assignments resulting from the successful application of the provisions of Article 6.

Whenever a new assignment is entered in the List, the Bureau shall inform administrations in its International Frequency Information Circular (BR-IFIC), indicating the characteristics of the assignment concerned.

Reason: It is proposed to transfer the definitions of the List from Article 5 of Appendix 30B to Article 2 which is dedicated to definitions.

ARTICLE 3

Frequency bands

NOC 3.1 The provisions of this Appendix shall apply to the fixed-satellite service in the frequency bands between:

- 4 500 and 4 800 MHz (space-to-Earth);
- 6 725 and 7 025 MHz (Earth-to-space);
- 10.70 and 10.95 GHz (space-to-Earth);
- 11.20 and 11.45 GHz (space-to-Earth);
- 12.75 and 13.25 GHz (Earth-to-space).

ARTICLE 4

Execution of the provisions and associated Plan

NOC 4.1 The Member States of the Union shall adopt, for their fixed-satellite service stations operating in the frequency bands referred to in this Appendix, the characteristics consistent with those specified in the Plan and its associated provisions.

NOC 4.2 The Member States of the Union shall not change the characteristics, or bring into use assignments to fixed-satellite service stations, or stations in the other services to which these frequency bands are allocated, except as provided for in the Radio Regulations and the appropriate Articles and Annexes of this Appendix.

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The Plan and the associated List of assignments¶
 5.1 . The Plan consists of:¶
 a) . Part A containing the allotments;¶
 b) . Part B containing the networks of existing systems.¶
 5.2 . A List of assignments as described in § 5.5 will be associated with the Plan.¶
 5.3 . The predetermined arc (PDA) is a segment of the geostationary-satellite orbit (GSO) about a nominal orbital position intended to provide flexibility in the Plan.¶
 a) . The size of the PDA depends on the stage of development of the satellite system.¶
 - . for a system in the *pre-design stage*, the PDA is the fixed portion of the GSO defined by the intersection between a segment of $\pm 10^\circ$ about the nominal orbital position established at the Conference and the corresponding service arc. After twenty years from the date of entry into force of this Appendix, the PDA for a system in the pre-design stage is the fixed portion of the GSO defined by the intersection between a segment of $\pm 20^\circ$ about the nominal orbital position established at the Conference and the corresponding service arc, provided that the minimum elevation angle after the application of this procedure is not less than 20° or than the value indicated for each climatic zone in Annex 1 to this Appendix, whichever is larger, for all allotments affected;¶
 - . for a system in the *design stage*, the PDA is the fixed portion of the GSO defined by the intersection between a segment of $\pm 5^\circ$ about the nominal orbital position as may be modified by the application of this Appendix and the PDA defined for the pre-design stage;¶
 - . for a system in the *operational stage*, the PDA will be considered as being zero.¶
 b) . The stage of development to be associated with allotments in Part A and assignments in the List derived from allotments in Part A, with existing systems in Pa... [3]

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Procedures for implementation of the Plan and regulation of the fixed-satellite service in the planned bands

MOD 1 (WRC-03)

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6.38 When an administration intends to convert an allotment into an assignment employing all or part of its allotment in the Plan, or when an administration, or one acting on behalf of a group of named administrations intends to introduce an additional system, the notifying administration shall, not earlier than eight years and not later than two years before the planned date of bringing the assignments into use, send to the Bureau the information specified in Appendix 4.

(WRC-07)

[Ed. Note: this does not deal with modifications to assignments in the List and it does not refer to what is meant by 'part of an allotment'.]

ADD 6.38bis If the information received by the Bureau under § 6.38 is found to be incomplete, the Bureau shall immediately seek from the administration concerned any clarification required and information not provided.

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If the payments are not received in accordance with the provisions of Council Decision 482, as amended, on the implementation of cost recovery for satellite network filings, the Bureau shall cancel the publication specified in § 6.43-3 and the corresponding entries in the List under § 6.44 or under § 6.44-2 after informing the administration concerned. The Bureau shall inform all administrations of such action and that the network specified in the publication in question no longer has to be taken into consideration by the Bureau and other administrations. The Bureau shall send a reminder to the notifying administration not later than two months prior to the deadline for the payment specified in the above-mentioned Decision 482, unless the payment has already been received (see also Resolution 87 (WRC-03)). (WRC-03)

ADD 6.43A The "other provisions" shall be identified and included in the Rules of Procedure.

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- 6.1 . When an administration intends to convert an allotment into an assignment employing all or part of its allotment in Part A of the Plan, it shall, not earlier than eight years and not later than two years before the planned date of bringing the network into use, send to the Bureau the information specified in Appendix 4. If the assignment is not brought into use by that date, the assignments recorded in the Appendix 30B List shall be transferred to allotment(s) in Part A of the Appendix 30B Plan with the predetermined arc (PDA) defined for a system in the pre-design stage in accordance with § 5.3 of Article ... [4]
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MOD 6.43 Upon receipt of a complete (Appendix 4) notice relating to the proposed assignment, the Bureau shall examine the notice as to its conformity with the Table of Frequency Allocations and the other provisions^{ADD 6.43A} of these Regulations, except those provisions relating to conformity with the fixed-satellite service Plan.

ADD 6.43-1 When the examination with respect to § 6.43 leads to an unfavourable finding, the notice shall be returned to the notifying administration with an indication of the appropriate action.

ADD 6.43-2 When the examination with respect to § 6.43 leads to a favourable finding, the Bureau shall use the method of Annex 4 to determine administrations whose:

- allotments in the Plan, or
- assignments which appear in the List, or
- assignments for which the Bureau has previously received complete information in accordance with this Article,

are considered as being affected.

ADD 6.43-3 The Bureau shall publish, in a Special Section of its International Frequency Information Circular (BR IFIC), the complete information received under § 6.38, together with the names of the affected administrations and the corresponding allotments in the Plan, assignments in the List, assignments for which the Bureau has previously received complete information in accordance with this Article. The Bureau shall immediately send the results of its examination to the administration proposing the assignment.

ADD 6.43-4 The Bureau shall send a telegram/fax to the administrations listed in the Special Section of the BR IFIC drawing their attention to the information it contains and shall send them the results of its examination.

[Editorial note: An administration that has been identified as being affected should within four months of the date of publication of the BR IFIC send its comments to the administration responsible for the network publication providing their]

[Editorial note: An administration on whose territory test points have been included in the network for which a publication in the BR IFIC have been identified may]

ADD 6.43-5 An administration which considers that it should have been identified in the publication referred to under § 6.43-3 above shall, within four months of the date of publication of its relevant BR IFIC, and identifying the affected allotment, assignment or proposed assignment, request the Bureau to include its name in the publication. The Bureau shall study this information on the basis of Annex 4 and shall inform both administrations of its conclusions. Should the Bureau agree to the administration's request, it shall publish an addendum to the publication under § 6.43-3.

ADD 6.43-6 An administration that has not notified its comments either to the administration seeking agreement or to the Bureau within a period of four months following the date of its BR IFIC referred to in § 6.43-3 shall be deemed to have agreed to the proposed assignment.

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administration using the frequency assignment included in the List under § 6.44-2 shall, upon receipt of advice thereof, immediately eliminate this harmful interference.

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MOD 6.54 When a frequency assignment included in the List is no longer required, the notifying administration shall immediately inform the Bureau.

ADD 6.54-1 When:

- an assignment is no longer required; or
- a frequency assignment recorded in the List and brought into use has been suspended for a period of more than two years; or
- a frequency assignment recorded in the List has not been brought into use within the eight years following the receipt by the Bureau of the relevant complete information under § 6.38,

the Bureau shall:

- a) publish this information in a Special Section of its BR IFIC;
- b) cancel the frequency assignment from the List;
- c) reinstate the allotment in the Appendix 30B Plan, if appropriate;
- d) update the reference situation for the allotments of the Plan and the assignments of the List.

The parameters of the reinstated allotments shall be those of the assignments deleted from the List [Editorial note : further discussion needed on this issue - provisional ? definitive ?], including the nominal orbital position, without any changes to other technical parameters of allotments or of assignments recorded in the List.

[Ed. Note : one way to resolve this might be along the following lines : Where an allotment is being converted into an assignment at the same orbital location the two will be grouped and treated as a unit. When a different orbital position is to be used then the allotment will be identified at the same orbital location and grouped with the assignment.]

ADD 6.54-2 If an assignment has not been entered into the List under § 6.44 or § 6.44-2 within the eight years following the receipt by the Bureau of the relevant complete information under § 6.38, the notice shall be cancelled without any changes to any allotments or assignments.

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 a) . modify the characteristics of its proposed assignment in order to ensure its compatibility; or
 b) . select an alternative orbital position and proceed in accordance with § 6.38; or
 c) . request the assistance of the Bureau in either course of action.

Deleted: 6.46 After the notice is returned to the administration following application of § 6.43, the administration may resubmit the notice and the Bureau shall apply again § 6.43 to § 6.45.

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ARTICLE 7

Procedure for the addition of a new allotment to the Plan for a new Member State of the Union

Editorial Note: Within CPG PT-1 this article has not been extensively discussed. There is a need to carefully examine options and develop a proposal.

MOD 7.1 The administration of a country which has joined the Union as a new Member State shall obtain a national allotment in the Plan by the following procedure.

NOC 7.2 The administration shall submit its request for an allotment to the Bureau, with the following information:

- the geographical coordinates of not more than 10 test points for determining the minimal ellipse to cover its national territory;
- the height above sea level of each of its test points and the rain zone or zones;
- any special requirement, other than a fixed orbital position, which is to be taken into account to the extent practicable.

MOD 7.3 Upon receipt of the complete information (mentioned in § 7.2 above), the Bureau shall find an appropriate orbital position and shall enter the national allotment of the new Member State of the Union in the Plan.

NOC 7.4 For this purpose the Bureau shall consult, and if necessary seek the agreement of, any administrations that may be affected.

ARTICLE 8 (WRC-03)

Procedure for notification and recording in the Master Register of assignments in the planned bands for the fixed-satellite service

NOC 8.1 Any assignment for which the relevant procedure of Article 6 has been successfully applied shall be notified to the Bureau using the relevant characteristics listed in Appendix 4, not earlier than three years before the assignments are brought into use. (WRC-03)

MOD 8.2 If the first notice referred to in § 8.1 has not been received by the Bureau within the eight-year period mentioned in § 6.38 of Article 6, the assignments in the List shall no longer be taken into account by the Bureau and administrations. The Bureau shall then act as if the assignment in the List has not been brought into use in conformity with § 6.38 of Article 6. The Bureau shall inform the notifying administration, three months in advance of the end of the eight-year period, of the actions it intends to take. (WRC-03)

NOC 8.3 Notices not containing those characteristics specified in Appendix 4 as mandatory or required shall be returned with comments to help the notifying administration to

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6.55 . These bands are used for the fixed-satellite service Plan and their use in accordance with this Section should be avoided if possible. Administrations are urged to use other available bands.¶

6.56 . An administration, or one acting on behalf of a group of administrations, may apply the procedure of this Section for an additional use as defined in Article 2, provided that the proposed assignments have a maximum period of validity of 15 years and will not, except if agreed to by the administrations affected, require any displacement of the orbital position of an allotment in Part A of the Plan or the orbital position of an assignment in the List, nor be incompatible with:¶
a) . the allotments in the Plan;¶
b) . the assignments in the List;¶
c) . the assignments for which the Bureau has previously received information in accordance with this Article.¶

6.56bis . In the case where multiple consecutive complete notices belonging to the same notifying administration have to be examined under § 6.56 without any notice from other administrations having been received in the meantime, the Bureau shall implement, whenever feasible, the following measures, where applicable, in order to accelerate, to the maximum extent possible, the processing of the notices:¶
– simultaneous processing of the information relating to the 6/4 and 13/10-11 GHz frequency bands in the same network having the same or different date of receipt;¶
– sequential examination of networks having the same or different date of receipt. The Bureau's finding for all these networks shall be given at the same time. (WRC-03)¶
6.57 . For this purpose it shall ... [40]

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complete and resubmit them, unless the information not provided is immediately forthcoming in response to an inquiry by the Bureau. (WRC-03)

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NOC 8.5 Complete notices shall be marked by the Bureau with their date of receipt and shall be examined in the date order of their receipt. Following receipt of a complete notice the Bureau shall, within not more than two months, publish its contents, with any diagrams and maps and the date of receipt, in the BR IFIC, which shall constitute the acknowledgement to the notifying administration of receipt of its notice. When the Bureau is not in a position to comply with the time-limit referred to above, it shall periodically so inform the administrations, giving the reasons therefor. (WRC-03)

Deleted: 8.4 Upon reception by the Bureau of a complete notice under § 8.1, a PDA of zero degrees (operational stage) shall be associated with this assignment. (WRC-03)

NOC 8.6 The Bureau shall not postpone the formulation of a finding on a complete notice unless it lacks sufficient data to reach a conclusion thereon. (WRC-03)

NOC 8.7 Each notice shall be examined: (WRC-03)

NOC 8.8 a) with respect to its conformity with the Table of Frequency Allocations and the other provisions⁴ of these Regulations, except those provisions relating to conformity with the fixed-satellite service Plan which are the subject of the following subparagraph; (WRC-03)

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MOD 8.9 b) with respect to its conformity with the fixed-satellite service Plan and the associated provisions, **ADD 8.9A** (WRC-03)

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NOC 8.10 When the examination with respect to § 8.8 leads to a favourable finding, the assignment shall be examined further with respect to § 8.9; otherwise the notice shall be returned with an indication of the appropriate action. (WRC-03)

NOC 8.11 When the examination with respect to § 8.9 leads to a favourable finding, the assignment shall be recorded in the Master Register. When the finding is unfavourable, the notice shall be returned to the notifying administration, with an indication of the appropriate action. (WRC-03)

NOC 8.12 In every case when a new assignment is recorded in the Master Register it shall, in accordance with the provisions of Article 8, include an indication of the finding reflecting the status of the assignment. This information shall also be published in the BR IFIC. (WRC-03)

MOD 8.13 A notice of a change in the characteristics of an assignment already recorded, as specified in Appendix 4, shall be examined by the Bureau under § 8.8, and 8.9 as appropriate.

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⁴ The “other provisions” shall be identified and included in the Rules of Procedure. (WRC-03)

ADD 8.9A When an administration notifies any assignment with characteristics different from those entered in the List through successful application of Article 6 of Appendix 30B, the Bureau will undertake calculation to determine if the proposed new characteristics increase the interference level caused to other allotments and assignments in the Plan and List. The increase of the interference will be checked by comparing the C/I ratio (power density) of these other allotments and assignments, which result from the use of the proposed new characteristics of the subject assignment on the one hand, and those obtained with the characteristics of the subject assignment in the List, on the other hand. This C/I calculation is performed under the same technical assumptions and conditions.

Any changes to the characteristics of an assignment, that has been notified and confirmed as having been brought into use, shall be brought into use within eight years from the date of the notification of the modification. Any changes to the characteristics of an assignment that has been notified but not yet brought into use shall be brought into use within the period provided for in § 6.38 of Article 6. (WRC-03)

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NOC 8.14 In the case of a change in the characteristics of an assignment which is in conformity with § 8.8, should the Bureau reach a favourable finding with respect to § 8.9, the amended assignment shall retain the original date of entry in the Master Register. The date of receipt by the Bureau of the notice relating to the change shall be entered in the Master Register. (WRC-03)

NOC 8.15 In applying the provisions of this Article, any resubmitted notice which is received by the Bureau more than six months after the date on which the original notice was returned by the Bureau shall be considered to be a new notice. (WRC-03)

NOC 8.16 All frequency assignments notified in advance of their being brought into use shall be entered provisionally in the Master Register. Any frequency assignment provisionally recorded under this provision shall be brought into use by the date specified in the notice. Within thirty days of such an assignment being brought into use, the notifying administration shall so inform the Bureau. If the Bureau does not receive that confirmation within the above period, after sending a reminder, it shall cancel the entry. The Bureau shall, however, inform the administration concerned before taking such action. (WRC-03)

MOD 8.17 Where the use of a recorded assignment to a space station is suspended for a period not exceeding eighteen months, the notifying administration shall, as soon as possible, inform the Bureau of the date on which such use was suspended and the date on which the assignment is to be brought back into regular use. If the assignment is not brought back into use within two years from the date of suspension, the Bureau shall cancel the assignment from the Master Register and apply the provision of § 6.54-1. (WRC-03)

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- Deleted: This latter date shall not exceed two years from the date of suspension.

NOC 8.18 No provision of this Appendix shall be considered as modifying the requirements of Article 9 relating to coordination between earth stations in the fixed-satellite service and stations of terrestrial services sharing the planned bands on an equal primary basis. (WRC-03)

NOC 8.19 Notification of assignments to a specific earth station using assignments included in the List shall be effected applying the provisions of Article 11. (WRC-03)

ARTICLE 9

General provisions

MOD 9.1 The Plan is limited to national systems providing a domestic service. Administrations may, however, in accordance with the provisions of Section I of Article 6, convert all or part of their allotments, or propose a new assignment to provide multi-national service.

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MOD 9.2 The existing systems as defined in § 2.4 may continue in operation for a maximum period of 20 years from the date of entry into force of this Appendix. **ADD 9.2A**

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ARTICLE 10

**Plan for the fixed-satellite service in the frequency bands
4 500-4 800 MHz, 6 725-7 025 MHz, 10.70-10.95 GHz,
11.20-11.45 GHz and 12.75-13.25 GHz⁵**

MOD A.1 COLUMN HEADINGS OF THE PLAN

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NOC Col. 1 *Beam identification* (Column 1 contains the symbol designating the country or the geographical area taken from Table B1 of the Preface to the International Frequency List)

NOC Col. 2 *Nominal orbital position*, in degrees and tenths of a degree

MOD Col. 3 *Service arc* (western and eastern limits in degrees and tenths of a degree) **MOD**

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SUP **MOD** Col. 4 *Longitude of the boresight*, in degrees and tenths of a degree

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- Deleted: Col. 4 *Predetermined arc* (western and eastern limits in degrees and tenths of a degree)¶

MOD Col. 5 *Latitude of the boresight*, in degrees and tenths of a degree

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MOD Col. 6 *Major axis of the elliptical cross-section half-power beam*, in degrees and tenths of a degree

MOD Col. 7 *Minor axis of the elliptical cross-section half-power beam*, in degrees and tenths of a degree

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MOD Col. 8 *Orientation of the ellipse* determined as follows: in a plane normal to the beam axis, the direction of the major axis of the ellipse is defined by the angle measured anticlockwise from a line parallel to the equatorial plane to the major axis of the ellipse, to the nearest degree

MOD Col. 9 Earth station *e.i.r.p.* density (dB(W/Hz))

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MOD Col. 11 Satellite *e.i.r.p.* density (dB(W/Hz))

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MOD Col. 11 *Remarks*

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ADD 9.2A [See also Resolution [XXX] (WRC-07)]

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⁵ The Plan has been prepared with a view to assuring for each allotment an aggregate *C/I* ratio of at least 26 dB.

MOD 6 The service arc indicated in column 3 of the Plan represents that segment of the GSO which is common to all individual service arcs of each test point for its minimum elevation angle as given in Annex 1, § 1.3 of this Appendix.

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* This Report is no longer in force.

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NOC A.2 TEXT FOR SYMBOLS IN REMARKS COLUMN OF THE PLAN

NOC 1 Fast roll-off space station transmitting and receiving antenna.

NOC 2 This allotment will use an earth station receiving and transmitting antenna side-lobe pattern that will conform to $29 - 25 \log \theta$.

NOC 3 This allotment will use an earth station receiving antenna side-lobe pattern that will conform to $29 - 25 \log \theta$.

SUP Reason: *The beam for the Administration of Syria is no longer adjacent to the orbital location utilized by the specified Luxembourg network.*

NOC 5 Owing to the mountainous areas within the country, the minimum elevation angle shall not be reduced below 20° when applying the predetermined arc concept.

NOC Note by the Secretariat (applicable when an asterisk (*) appears in column 12): It is to be noted that this beam is intended to be implemented as part of a multi-beam network, operating from a single orbital location. Within any multi-beam network, the beams are the responsibility of a single administration, hence interference between them has not been taken into account during the Conference. The number which appears in the alphanumeric code that follows the asterisk serves to identify the multi-beam network concerned.

Deleted: 4 . The Administration of Luxembourg (LUX) agreed to protect the national allotment SYR0000 (SYR) to a single entry (C/I) ratio of 30 dB against the interference from the beam LUXGDL62.¶

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CPG07(2007)055 Annex VI 8

[Editorial Note: PT-1 has not yet discussed how to update the tables below

4 500-4 800 MHz, 6 725-7 025 MHz

1	2	3		4	5	6	7	8	9	10	112
ABW00000	-98.2	-119.4	-18.9	-69.1	12.4	1.6	1.6	90.0	-7.5	-41.4	
ADL00000	113.0	113.0	114.3	140.0	-66.7	1.6	1.6	90.0	-7.5	-41.3	*/MB1
AFG00000	48.0	42.3	95.8	66.4	33.9	2.2	1.6	15.0	-7.5	-39.4	
AFS00000	71.0	-25.8	84.2	27.2	-30.1	5.3	1.6	128.0	-5.7	-38.6	
AGL00000	-36.1	-37.2	74.1	15.9	-12.4	2.4	1.6	78.0	-7.5	-39.1	
ALB00000	2.6	-29.9	69.8	20.0	41.1	1.6	1.6	90.0	-7.5	-41.4	
ALG00000	-33.5	-33.5	38.4	1.6	27.8	3.3	2.2	133.0	-6.5	-38.9	
ALS00000	-159.0	-169.8	-158.2	-158.6	57.5	6.3	1.6	1.0	-5.8	-38.8	*/MB2
AND00000	-41.0	-48.6	51.7	1.5	42.5	1.6	1.6	90.0	-7.5	-41.4	
ARG00000	-51.0	-58.4	-51.0	-62.0	-33.6	4.8	2.9	93.0	-0.4	-38.1	*/MB3
ARGINSUL	-51.0	-58.4	-51.0	-60.0	-57.5	3.6	1.6	154.0	-7.5	-38.5	*/MB3
ARS00000	52.0	20.1	60.0	45.7	23.1	3.7	2.6	153.0	-6.6	-39.3	
ASCSTHTC	-37.1	-38.5	-27.1	-11.8	-19.6	5.6	1.8	77.0	-5.9	-39.0	*/MB4
ATG00000	-77.7	-112.2	-11.4	-61.8	17.0	1.6	1.6	90.0	-7.5	-41.8	
ATN00000	-5.2	-50.1	1.9	-65.6	15.1	1.6	1.6	90.0	-7.5	-38.9	*/MB5
AUS00001	144.1	122.4	148.1	134.3	-24.5	6.6	5.3	146.0	4.0	-38.2	*/MB6
AUS00002	144.1	122.4	148.1	163.6	-30.5	1.6	1.6	90.0	-7.5	-39.5	*/MB6
AUS00003	144.1	122.4	148.1	101.5	-11.1	1.6	1.6	90.0	-7.5	-40.5	*/MB6
AUS00004	144.1	122.4	148.1	159.0	-54.5	1.6	1.6	90.0	-7.5	-41.6	*/MB6
AUS00005	144.1	122.4	148.1	110.4	-66.3	1.6	1.6	90.0	-7.5	-41.3	*/MB6
AUT00000	-2.6	-18.6	46.4	13.2	47.5	1.6	1.6	90.0	-7.5	-40.8	2
AZR00000	-7.9	-41.9	6.7	-28.0	38.7	1.6	1.6	90.0	-7.5	-41.1	*/MB7
B 00001	-65.0	-70.0	-60.1	-62.6	-6.0	4.1	4.0	43.0	-0.4	-38.7	
B 00002	-61.1	-70.0	-60.1	-45.4	-6.3	4.6	4.1	152.0	0.2	-38.6	
B 00003	-68.7	-70.0	-60.1	-50.0	-20.9	4.3	3.0	60.0	-1.3	-38.5	
BAH00000	-74.3	-121.1	-32.2	-75.8	24.0	1.6	1.6	133.0	-7.5	-39.4	
BDI00000	-2.2	-30.5	90.4	29.9	-3.4	1.6	1.6	90.0	-7.5	-41.6	
BEL00000	52.7	-53.6	62.0	5.2	50.6	1.6	1.6	90.0	-7.5	-41.2	
BEN00000	-30.6	-40.2	44.7	2.3	9.3	1.6	1.6	90.0	-7.5	-39.9	
BERCAYMS	-37.1	-38.5	-27.1	-68.6	22.5	3.7	2.3	41.0	-3.5	-38.2	*/MB4
BFA00000	10.2	-54.6	46.2	-1.4	12.2	1.7	1.6	24.0	-7.5	-39.5	
BGD00000	133.0	44.6	135.5	90.2	24.0	1.6	1.6	90.0	-7.5	-40.3	
BHR00000	20.4	-18.6	119.8	50.6	26.1	1.6	1.6	90.0	-7.5	-41.9	
BLZ00000	-90.8	-138.4	-38.7	-88.6	17.2	1.6	1.6	90.0	-7.5	-41.6	
BOL00000	-35.0	-97.3	-23.2	-64.4	-17.1	2.7	1.7	129.0	-5.4	-38.6	
BOT00000	19.9	-41.7	89.9	24.0	-21.8	1.6	1.6	90.0	-7.5	-40.0	
BRB00000	-29.8	-110.8	-8.4	-59.6	13.2	1.6	1.6	90.0	-7.5	-41.6	
BRM00000	110.8	57.6	131.0	97.0	18.9	3.2	1.6	88.0	-5.1	-38.7	
BRU00000	157.3	71.5	157.7	114.6	4.5	1.6	1.6	90.0	-7.5	-40.9	
BTN00000	63.0	34.3	146.6	90.4	27.0	1.6	1.6	90.0	-7.5	-41.5	
BUL00000	50.4	-20.6	71.5	25.6	42.8	1.6	1.6	90.0	-7.5	-40.8	
CAF00000	14.8	-24.8	57.6	21.5	6.5	2.7	1.7	14.0	-6.3	-39.1	
CAN0EAST	-107.3	-108.0	-90.1	-76.6	50.1	5.0	1.7	154.0	-4.9	-38.3	
CANOCENT	-111.1	-115.1	-101.0	-96.1	51.4	4.3	2.0	155.0	-5.5	-38.4	
CANOWEST	-114.9	-119.0	-113.7	-120.1	57.4	3.1	1.9	173.0	-7.5	-38.7	
CAR00000	-159.0	-169.8	-158.2	173.4	4.6	10.2	2.4	175.0	6.6	-35.6	*/MB2
CBG00000	96.1	61.2	144.2	105.1	12.9	1.6	1.6	90.0	-7.5	-40.4	
CHL00000	-74.9	-96.4	-53.6	-82.6	-32.8	8.1	6.1	155.0	1.4	-38.4	
CHN00001	101.4	90.4	139.4	103.7	35.0	8.1	4.3	2.0	2.0	-38.3	
CHN00002	135.5	75.0	151.3	114.8	16.4	4.9	2.4	65.0	-1.5	-38.7	
CLM00000	-70.9	-110.1	-39.9	-74.0	5.7	4.0	2.3	121.0	-3.0	-38.9	
CLN00000	121.5	28.1	131.9	80.1	7.7	1.6	1.6	90.0	-7.5	-41.2	
CME00000	21.4	-27.3	51.2	12.9	6.3	2.5	1.9	84.0	-6.2	-39.0	
CNR00000	12.2	-31.1	24.2	-15.9	28.5	1.6	1.6	90.0	-7.5	-41.3	*/MB8
COG00000	-16.0	-24.7	56.5	14.8	-0.6	2.0	1.6	63.0	-7.0	-38.8	
COM00000	94.5	-7.3	95.5	44.1	-12.2	1.6	1.6	90.0	-7.5	-41.0	
CPV00000	-85.7	-94.7	46.5	-24.1	16.0	1.6	1.6	90.0	-7.5	-41.3	
CTI00000	4.6	-15.0	27.1	-5.9	7.8	1.6	1.6	90.0	-7.5	-40.0	
CTR00000	-96.0	-125.4	-44.0	-85.3	8.2	1.6	1.6	90.0	-7.5	-40.2	
CUB00000	-80.6	-123.5	-36.1	-79.5	21.0	2.0	1.6	172.0	-7.5	-39.3	
CVA00000	58.1	-38.1	63.1	12.5	41.9	1.6	1.6	90.0	-7.5	-41.3	
CYP00000	-1.8	-21.5	87.9	33.2	35.1	1.6	1.6	90.0	-7.5	-41.6	
CYPSBA00	56.6	44.7	59.2	32.9	34.6	1.6	1.6	90.0	-7.5	-41.7	*/MB9
D 00000	26.4	-30.4	53.1	9.7	50.7	1.6	1.6	90.0	-7.5	-40.5	
DDR00000	37.0	-26.8	51.7	12.6	51.4	1.6	1.6	90.0	-7.5	-40.8	3
DJI00000	-18.3	-28.4	113.6	42.6	11.7	1.6	1.6	90.0	-7.5	-41.3	
DMA00000	-69.6	-112.1	-10.5	-61.3	15.3	1.6	1.6	90.0	-7.5	-41.8	
DNK00001	32.2	-40.8	62.2	11.6	56.0	1.6	1.6	90.0	-7.5	-40.9	

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4 500-4 800 MHz, 6 725-7 025 MHz

1	2	3	4	5	6	7	8	9	10	11	
DNK00002	-49.0	-50.0	-43.1	12.5	56.3	1.6	1.6	90.0	-7.5	-40.6	*/MB10
DNK00FAR	-49.0	-50.0	-43.1	-7.2	61.7	1.6	1.6	90.0	-7.5	-41.1	*/MB10
DOM00000	-85.4	-120.3	-20.5	-70.4	18.7	1.6	1.6	90.0	-7.5	-41.7	
E 00002	12.2	-31.1	24.2	-3.0	39.9	2.1	1.6	8.0	-7.5	-39.3	*/MB8
EGY00000	68.5	-10.3	69.5	30.3	26.2	2.3	1.6	54.0	-7.5	-39.2	
EQA00000	-104.0	-104.0	-94.1	-83.1	-1.4	3.1	1.6	174.0	-5.7	-38.9	
ETH00000	57.5	-4.0	85.0	40.6	10.3	2.8	2.8	64.0	-7.3	-39.4	
F 00000	0.9	-13.9	5.7	3.1	45.9	2.1	1.6	168.0	-7.5	-39.0	*/MB11
FJI00000	148.8	128.2	-131.1	178.5	-17.2	1.6	1.6	90.0	-7.5	-41.5	
FLKSTGGL	-37.1	-38.5	-27.1	-46.8	-59.6	3.7	1.6	170.0	-7.5	-38.8	*/MB4
FNL00000	46.8	7.1	46.8	23.8	64.3	1.6	1.6	90.0	-7.5	-39.3	
G 00000	-37.1	-38.5	-27.1	-4.1	53.9	1.6	1.6	151.0	-7.5	-39.0	*/MB4
GAB00000	38.8	-29.2	52.0	11.7	-0.7	1.6	1.6	90.0	-7.5	-39.8	
GDL00000	0.9	-13.9	5.7	-61.9	16.3	1.6	1.6	90.0	-7.5	-40.0	*/MB11
GDL00002	-115.9	-123.2	-81.2	-61.8	16.4	1.6	1.6	90.0	-7.5	-40.3	*/MB13
GHA00000	16.0	-41.7	39.3	-1.3	7.7	1.6	1.6	90.0	-7.5	-39.7	
GIB00000	56.6	44.7	59.2	-5.4	36.1	1.6	1.6	90.0	-7.5	-40.9	*/MB9
GMB00000	-34.0	-77.3	44.5	-16.4	13.4	1.6	1.6	90.0	-7.5	-42.1	
GNB00000	40.0	-76.5	45.7	-15.4	12.0	1.6	1.6	90.0	-7.5	-41.3	
GNE00000	-32.3	-32.8	53.8	10.5	1.7	1.6	1.6	90.0	-7.5	-40.9	
GRC00000	16.6	-8.9	56.8	24.7	38.3	1.7	1.6	160.0	-7.5	-39.3	
GRD00000	-32.8	-113.0	-10.2	-61.6	12.0	1.6	1.6	90.0	-7.5	-41.6	
GRL00000	-49.0	-50.0	-43.1	-42.9	68.6	2.3	1.6	174.0	-7.5	-38.6	*/MB10
GTM00000	-135.7	-139.3	-41.4	-90.5	15.5	1.6	1.6	90.0	-7.5	-40.5	
GUF00000	0.9	-13.9	5.7	-53.2	4.3	1.6	1.6	90.0	-7.2	-40.0	*/MB11
GUF00002	-115.9	-123.2	-81.2	-53.3	4.3	1.6	1.6	90.0	-6.5	-39.4	*/MB13
GUI00000	27.5	-51.8	33.8	-10.9	10.2	1.6	1.6	90.0	-7.5	-39.8	
GUMMRA00	-159.0	-169.8	-158.2	145.4	16.7	1.7	1.6	79.0	-7.3	-38.3	*/MB2
GUY00000	-24.1	-100.1	-18.3	-59.2	4.7	1.6	1.6	90.0	-7.5	-39.4	
HKG00000	56.6	44.7	59.2	114.5	22.4	1.6	1.6	90.0	-7.5	-40.6	*/MB9
HND00000	-76.2	-123.8	-48.1	-86.1	15.4	1.6	1.6	90.0	-7.5	-40.0	
HNG00000	-6.6	-22.2	62.4	19.4	47.4	1.6	1.6	90.0	-7.5	-41.0	2
HOL00000	-5.2	-50.1	1.9	5.4	52.4	1.6	1.6	90.0	-7.5	-41.4	*/MB5
HTI00000	-92.0	-122.9	-23.1	-73.0	18.8	1.6	1.6	90.0	-7.5	-41.7	
HWA00000	-159.0	-169.8	-158.2	-157.6	20.7	1.6	1.6	90.0	-7.5	-40.2	*/MB2
HWL00000	-159.0	-169.8	-158.2	-176.6	0.1	1.6	1.6	90.0	-7.5	-41.8	*/MB2
I 00000	-28.1	-32.9	54.1	11.3	40.9	2.1	1.6	141.0	-7.5	-38.9	
IND00000	74.0	51.3	116.4	82.7	18.9	6.2	4.9	120.0	2.4	-38.5	
INS00000	115.4	101.1	135.0	117.6	-1.8	9.4	4.3	170.0	3.9	-38.6	
IRL00000	-31.0	-41.0	25.7	-8.2	53.2	1.6	1.6	90.0	-7.5	-41.1	
IRN00000	25.0	20.1	50.0	54.3	33.0	3.7	1.6	143.0	-7.5	-39.0	
IRQ00000	66.4	5.1	82.5	44.3	33.1	1.6	1.6	90.0	-7.5	-39.4	
ISL00000	-35.4	-53.0	14.8	-18.2	64.9	1.6	1.6	90.0	-7.5	-40.5	
ISR00000	73.0	-8.0	78.4	35.0	31.3	1.6	1.6	90.0	-7.5	-41.0	
J 00000	152.5	94.4	170.9	140.4	30.4	5.7	3.7	15.0	-0.2	-38.5	
JAR00000	-159.0	-169.8	-158.2	-160.0	-0.4	1.6	1.6	90.0	-7.5	-41.9	*/MB2
JMC00000	-108.6	-127.5	-27.8	-77.6	18.2	1.6	1.6	90.0	-7.5	-41.5	
JON00000	-159.0	-169.8	-158.2	-168.5	17.0	1.6	1.6	90.0	-7.5	-42.2	*/MB2
JOR00000	81.8	-28.8	102.9	36.7	31.3	1.6	1.6	90.0	-7.5	-40.9	
KEN00000	78.2	-10.4	86.3	38.4	0.8	2.1	1.6	95.0	-7.5	-39.3	
KER00000	113.0	113.0	114.3	69.3	-43.9	1.9	1.6	169.0	-7.5	-38.7	*/MB1
KIR00000	150.0	120.6	-134.6	173.0	1.0	1.6	1.6	90.0	-7.5	-41.8	
KOR00000	116.2	83.0	169.6	127.7	36.2	1.6	1.6	90.0	-7.5	-40.5	
KRE00000	145.0	110.1	150.0	127.8	39.8	1.6	1.6	90.0	-7.5	-39.6	
KWT00000	30.8	-20.2	115.3	47.7	29.1	1.6	1.6	90.0	-7.5	-41.9	1, 2
LAO00000	142.0	56.6	149.9	104.1	18.1	1.6	1.6	90.0	-7.5	-39.1	
LBN00000	91.0	-31.6	103.2	35.8	33.8	1.6	1.6	90.0	-7.5	-41.3	
LBR00000	-41.8	-50.4	35.5	-8.9	6.5	1.6	1.6	90.0	-7.5	-40.4	
LBY00000	28.5	-19.2	54.9	19.0	25.9	3.0	2.7	165.0	-6.8	-39.2	
LIE00000	7.9	-30.0	15.0	9.5	47.2	1.6	1.6	90.0	-7.5	-41.7	
LSO00000	-18.7	-40.1	96.9	28.4	-29.5	1.6	1.6	90.0	-7.5	-41.5	
LUX00000	19.2	-53.9	66.1	6.2	49.7	1.6	1.6	90.0	-7.5	-41.6	
MAC00000	117.0	64.7	162.4	113.6	22.2	1.6	1.6	90.0	-7.5	-41.8	
MAU00000	92.2	8.0	107.0	57.5	-20.2	1.6	1.6	90.0	-7.5	-41.4	
MCO00000	40.5	-41.8	56.6	7.4	43.7	1.6	1.6	90.0	-7.5	-41.3	
MDG00000	16.9	10.4	81.1	46.6	-18.7	2.6	1.6	66.0	-5.4	-38.6	
MDR00000	-7.9	-41.9	6.7	-16.2	31.6	1.6	1.6	90.0	-7.5	-41.7	*/MB7
MDW00000	-159.0	-169.8	-158.2	-177.4	28.2	1.6	1.6	90.0	-7.5	-42.0	*/MB2
MEX00000	-113.0	-136.1	-61.0	-103.6	23.3	5.8	2.4	161.0	-2.6	-38.8	

- Deleted: 4 (... [109])
- Deleted: - 50.0 (... [110])
- Deleted: - 50.0 (... [111])
- Deleted: - 95.4 (... [112])
- Deleted: 2.2 (... [113])
- Deleted: 58.5 (... [114])
- Deleted: - 104.0 (... [115])
- Deleted: 47.5 (... [116])
- Deleted: - 9.1 (... [117])
- Deleted: 138.8 (... [118])
- Deleted: - 38.5 (... [119])
- Deleted: 36.8 (... [120])
- Deleted: - 38.5 (... [121])
- Deleted: 28.8 (... [122])
- Deleted: - 9.1 (... [123])
- Deleted: - 123.2 (... [124])
- Deleted: 6.0 (... [125])
- Deleted: 46.6 (... [126])
- Deleted: - 44.0 (... [127])
- Deleted: 30.0 (... [128])
- Deleted: - 32.8 (... [129])
- Deleted: 6.6 (... [130])
- Deleted: - 42.8 (... [131])
- Deleted: - 50.0 (... [132])
- Deleted: - 139.3 (... [133])
- Deleted: - 9.1 (... [134])
- Deleted: - 123.2 (... [135])
- Deleted: 17.5 (... [136])
- Deleted: - 169.0 (... [137])
- Deleted: - 34.1 (... [138])
- Deleted: 46.6 (... [139])
- Deleted: - 86.2 (... [140])
- Deleted: - 16.6 (... [141])
- Deleted: - 15.2 (... [142])
- Deleted: - 102.0 (... [143])
- Deleted: - 169.0 (... [144])
- Deleted: - 169.0 (... [145])
- Deleted: - 32.9 (... [146])
- Deleted: 64.0 (... [147])
- Deleted: 105.4 (... [148])
- Deleted: - 41.0 (... [149])
- Deleted: 20.1 (... [150])
- Deleted: 56.4 (... [151])
- Deleted: - 45.4 (... [152])
- Deleted: 63.0 (... [153])
- Deleted: 142.5 (... [154])
- Deleted: - 169.0 (... [155])
- Deleted: - 118.6 (... [156])
- Deleted: - 169.0 (... [157])
- Deleted: 71.8 (... [158])
- Deleted: 68.2 (... [159])
- Deleted: 113.0 (... [160])
- Deleted: 140.0 (... [161])
- Deleted: 106.2 (... [162])
- Deleted: 135.0 (... [163])
- (... [164])
- (... [165])
- (... [166])
- (... [167])
- (... [168])
- (... [169])
- (... [170])
- (... [171])
- (... [172])
- (... [173])

CPG07(2007)055 Annex VI 8

4 500-4 800 MHz, 6 725-7 025 MHz

1	2	3	4	5	6	7	8	9	10	11	
MLA00000	78.5	76.4	143.2	108.2	4.7	3.2	1.6	0.0	-4.2	-38.4	
MLD00000	117.6	21.1	124.9	73.4	2.5	2.2	1.6	88.0	-7.5	-38.7	
MLI00000	-1.3	-59.9	43.3	-3.9	17.6	3.3	2.5	21.0	-5.5	-39.2	
MLT00000	5.6	-39.8	68.5	14.4	35.9	1.6	1.6	90.0	-7.5	-41.8	
MNG00000	113.6	60.4	148.9	103.8	46.8	3.6	1.6	3.0	-7.5	-38.9	
MOZ00000	88.6	-10.6	90.6	35.6	-17.2	3.1	1.6	98.0	-5.6	-38.3	
MRC00000	33.0	-50.5	37.5	-8.9	27.9	3.4	1.6	45.0	-7.5	-38.8	
MRL00000	-159.0	-169.8	-158.2	175.3	8.7	2.3	1.6	94.0	-6.5	-38.8	*/MB2
MTN00000	-22.8	-72.8	44.2	-10.3	19.8	2.5	2.4	76.0	-7.5	-39.4	
MWI00000	30.3	-25.0	93.7	34.1	-13.3	1.6	1.6	90.0	-7.5	-40.0	
MYT00000	0.9	-13.9	5.7	45.2	-12.8	1.6	1.6	90.0	-7.5	-41.2	*/MB11
NCG00000	-84.4	-124.4	-45.9	-84.9	12.9	1.6	1.6	90.0	-7.5	-40.6	
NCL00000	113.0	113.0	114.3	165.8	-21.4	1.6	1.6	90.0	-7.5	-40.6	*/MB1
NGR00000	-38.5	-54.5	64.6	7.5	17.2	2.1	1.7	100.0	-7.5	-38.9	
NIG00000	42.5	-29.6	49.6	8.0	9.9	2.5	1.6	47.0	-5.6	-38.5	
NMB00000	13.4	-45.4	82.5	18.5	-21.0	2.7	2.6	155.0	-7.5	-39.5	
NOR00000	3.9	2.9	29.1	11.7	64.6	2.0	1.6	17.0	-7.5	-38.7	
NPL00000	123.3	30.3	137.6	84.4	28.0	1.6	1.6	90.0	-7.5	-40.8	
NRU00000	146.0	114.5	-140.7	166.9	-0.5	1.6	1.6	90.0	-7.5	-41.8	
NZL00001	152.0	150.9	175.0	170.9	-44.8	5.4	1.6	49.0	-5.3	-38.1	*/MB14
NZL00002	152.0	150.9	175.0	-165.4	-13.2	2.7	2.0	82.0	-5.2	-38.3	*/MB14
OCE00000	-115.9	-123.2	-81.2	-141.9	-16.1	3.5	2.4	139.0	-5.0	-38.9	*/MB13
OMA00000	104.0	-9.8	122.2	55.1	21.6	1.9	1.6	61.0	-7.5	-39.2	5
PAK00000	56.0	34.1	62.0	69.9	29.8	3.0	2.0	22.0	-7.2	-39.0	
PHL00000	89.6	83.0	159.8	121.3	11.4	3.3	1.6	101.0	-4.2	-38.4	
PLM00000	-159.0	-169.8	-158.2	-161.4	7.0	1.6	1.6	90.0	-7.5	-41.9	*/MB2
PNG00000	154.1	114.2	-176.5	148.4	-6.6	3.3	2.3	167.0	-4.1	-39.0	
PNR00000	-79.2	-120.0	-40.4	-80.2	8.5	1.6	1.6	90.0	-7.5	-40.4	
POL00000	14.2	-14.8	56.4	19.3	52.0	1.6	1.6	90.0	-7.5	-40.2	
POR00000	-7.9	-41.9	6.7	-8.0	39.7	1.6	1.6	90.0	-7.5	-41.2	*/MB7
PRG00000	-81.5	-90.4	-23.2	-58.7	-23.1	1.6	1.6	90.0	-7.5	-39.1	
PRU00000	-89.9	-120.4	-38.2	-74.2	-8.4	3.6	2.4	111.0	-3.3	-38.7	
PTC00000	-62.0	-62.6	-58.5	-130.1	-25.1	1.6	1.6	90.0	-7.5	-41.2	
QAT00000	8.3	-16.9	120.0	51.6	25.4	1.6	1.6	90.0	-7.5	-41.6	
REU00000	0.9	-13.9	5.7	55.6	-21.1	1.6	1.6	90.0	-7.5	-40.7	*/MB11
REU00002	113.0	113.0	114.3	55.6	-21.1	1.6	1.6	90.0	-7.5	-40.6	*/MB1
ROU00000	31.0	-1.0	51.0	25.0	46.3	1.6	1.6	90.0	-7.5	-39.6	
RRW00000	6.8	-30.9	90.8	29.7	-1.9	1.6	1.6	90.0	-7.5	-41.9	
S 00000	11.2	-7.0	47.1	16.7	60.9	1.6	1.6	90.0	-7.5	-40.2	
SCN00000	-88.8	-113.2	-12.6	-62.9	17.3	1.6	1.6	90.0	-7.5	-41.6	
SDN00001	1.4	-7.0	15.0	29.3	10.3	3.0	1.9	131.0	-7.2	-39.0	*/MB15
SDN00002	1.4	-7.0	15.0	29.4	16.7	2.6	2.4	171.0	-7.5	-39.3	*/MB15
SEN00000	-48.4	-64.4	34.3	-14.0	14.1	1.6	1.6	90.0	-7.5	-40.3	
SEY00000	96.5	3.1	107.7	55.4	-4.5	1.6	1.6	90.0	-7.5	-41.3	
SLM00000	147.5	120.4	-161.7	159.0	-9.1	1.6	1.6	90.0	-7.5	-39.5	
SLV00000	-130.5	-130.5	-47.5	-89.0	13.7	1.6	1.6	90.0	-7.5	-40.9	
SMA00000	-159.0	-169.8	-158.2	-170.7	-14.2	1.6	1.6	90.0	-7.5	-42.2	*/MB2
SMO00000	-125.5	137.5	-121.7	-172.1	-13.7	1.6	1.6	90.0	-7.5	-41.1	
SMR00000	23.0	-36.4	61.4	12.5	43.9	1.6	1.6	90.0	-7.5	-41.7	
SNG00000	98.1	60.6	147.1	103.9	1.3	1.6	1.6	90.0	-7.5	-41.6	
SOM00000	98.4	-20.0	102.7	46.0	6.3	3.1	1.6	72.0	-7.5	-38.8	
SPM00000	0.9	-13.9	5.7	-56.4	47.0	1.6	1.6	90.0	-7.5	-40.9	*/MB11
SRL00000	-51.8	-63.8	40.0	-11.9	8.5	1.6	1.6	90.0	-7.5	-41.4	
STP00000	31.4	-45.4	59.4	7.0	1.0	1.6	1.6	90.0	-7.5	-41.7	
SUI00000	-9.2	-20.0	35.0	8.2	46.5	1.6	1.6	90.0	-7.5	-41.3	2
SUR00000	-77.0	-97.0	-15.0	-55.6	3.9	1.6	1.6	90.0	-7.5	-40.7	
SWZ00000	29.0	-26.8	89.2	31.3	-26.4	1.6	1.6	90.0	-7.5	-42.0	
SYR00000	18.7	10.1	70.0	38.6	35.3	1.6	1.6	90.0	-7.5	-40.8	
TCO00000	-10.5	-36.5	67.5	18.4	15.6	3.5	1.6	97.0	-6.8	-39.0	
TCH00000	-12.7	-21.3	54.4	17.3	49.6	1.6	1.6	90.0	-7.5	-40.0	2
TGO00000	-21.1	-41.0	43.4	0.8	8.6	1.6	1.6	90.0	-7.5	-40.4	
THA00000	120.6	58.6	137.2	100.9	12.8	2.8	1.6	83.0	-5.6	-38.8	
TON00000	-128.0	135.7	-126.0	-175.2	-21.2	1.6	1.6	90.0	-7.5	-41.0	
TRD00000	-73.4	-112.3	-9.9	-61.1	10.8	1.6	1.6	90.0	-7.5	-41.8	
TUN00000	-4.1	-29.0	48.4	9.4	33.5	1.6	1.6	90.0	-7.5	-40.3	
TUR00000	9.4	7.1	61.6	34.1	38.9	2.8	1.6	171.0	-7.5	-38.9	
TUV00000	158.0	127.3	-129.0	179.2	-8.5	1.6	1.6	90.0	-7.5	-41.8	
TZA00000	69.5	-21.3	91.4	35.4	-5.9	2.4	1.6	117.0	-7.5	-39.3	

- Deleted: 4 ... [177]
- Deleted: 76.4 ... [178]
- Deleted: 107.6 ... [179]
- Deleted: -11.3 ... [180]
- Deleted: -4.4 ... [181]
- Deleted: 103.6 ... [182]
- Deleted: 78.6 ... [183]
- Deleted: 23.0 ... [184]
- Deleted: -169.0 ... [185]
- Deleted: -32.8 ... [186]
- Deleted: 20.3 ... [187]
- Deleted: -9.1 ... [188]
- Deleted: -94.4 ... [189]
- Deleted: 113.0 ... [190]
- Deleted: -48.5 ... [191]
- Deleted: 32.5 ... [192]
- Deleted: 3.4 ... [193]
- Deleted: 2.9 ... [194]
- Deleted: 113.3 ... [195]
- Deleted: 136.0 ... [196]
- Deleted: 150.9 ... [197]
- Deleted: 150.9 ... [198]
- Deleted: -123.2 ... [199]
- Deleted: 94.0 ... [200]
- Deleted: 46.0 ... [201]
- Deleted: 83.0 ... [202]
- Deleted: -169.0 ... [203]
- Deleted: 144.1 ... [204]
- Deleted: -89.2 ... [205]
- Deleted: 4.2 ... [206]
- Deleted: -17.9 ... [207]
- Deleted: -90.4 ... [208]
- Deleted: -99.9 ... [209]
- Deleted: -62.6 ... [210]
- Deleted: -1.7 ... [211]
- Deleted: -9.1 ... [212]
- Deleted: 113.0 ... [213]
- Deleted: 21.0 ... [214]
- Deleted: -3.2 ... [215]
- Deleted: 1.2 ... [216]
- Deleted: -98.8 ... [217]
- Deleted: -7.0 ... [218]
- Deleted: -7.0 ... [219]
- Deleted: -58.4 ... [220]
- Deleted: 86.5 ... [221]
- Deleted: 137.5 ... [222]
- Deleted: -130.5 ... [223]
- Deleted: -169.0 ... [224]
- Deleted: -135.5 ... [225]
- Deleted: 13.0 ... [226]
- Deleted: 88.1 ... [227]
- Deleted: 88.4 ... [228]
- Deleted: -9.1 ... [229]
- Deleted: -61.8 ... [230]
- Deleted: 21.4 ... [231]
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- ... [234]
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- ... [236]
- ... [237]
- ... [238]
- ... [239]
- ... [240]
- ... [241]

4 500-4 800 MHz, 6 725-7 025 MHz

1	2	3	4	5	6	7	8	9	10	11	
UAE00000	70.4	-12.7	120.3	53.8	24.9	1.6	1.6	90.0	-7.5	-41.1	
UGA00000	32.0	-27.2	91.6	32.2	0.9	1.6	1.6	90.0	-7.5	-40.3	
URG00000	-86.1	-108.9	-3.5	-56.3	-33.7	1.6	1.6	90.0	-7.5	-40.7	
URS00001	61.0	56.7	65.4	57.6	48.3	7.5	3.5	178.0	-1.1	-38.3	
URS00002	88.1	87.7	98.0	94.8	48.6	7.5	3.5	175.0	1.5	-38.3	
URS00003	138.5	138.5	140.6	134.9	52.6	7.5	3.5	5.0	-1.1	-38.3	
USA00000	-101.0	-130.3	-63.5	-93.9	36.8	8.2	3.6	172.0	1.2	-38.4	*/MB16
USAVIPRT	-101.0	-130.3	-63.5	-64.5	17.8	1.6	1.6	90.0	-7.5	-41.4	*/MB16
VCT00000	-93.1	-112.3	-9.9	-61.1	13.2	1.6	1.6	90.0	-7.5	-41.5	
VEN00001	-82.7	-102.5	-24.7	-66.4	6.8	2.8	2.1	142.0	-4.9	-38.9	*/MB17
VEN00002	-82.7	-102.5	-24.7	-63.6	15.7	1.6	1.6	90.0	-7.5	-41.7	*/MB17
VTN00000	107.0	85.1	125.0	108.5	14.2	3.6	2.6	139.0	-2.9	-38.8	
VUT00000	150.7	127.4	-152.4	168.4	-17.2	1.6	1.6	90.0	-7.5	-40.3	
WAK00000	-159.0	-169.8	-158.2	166.5	19.2	1.6	1.6	90.0	-7.5	-41.9	*/MB2
WAL00000	113.0	113.0	114.3	-177.1	-13.8	1.6	1.6	90.0	-6.9	-39.8	*/MB1
YEM00000	27.0	-24.3	113.2	44.2	15.1	1.6	1.6	90.0	-7.5	-41.4	
YMS00000	108.0	-16.4	114.4	49.9	14.8	1.6	1.6	90.0	-7.5	-39.7	
YUG00000	43.1	-25.8	60.2	18.7	44.4	1.6	1.6	90.0	-7.5	-40.5	2
ZAI00000	51.0	-23.6	62.6	24.4	-4.6	3.9	3.5	92.0	-0.5	-38.4	
ZMB00000	39.6	-27.9	82.5	27.9	-12.8	2.4	1.6	26.0	-7.5	-39.6	
ZWE00000	65.6	-27.0	85.5	30.0	-18.9	1.6	1.6	90.0	-7.5	-39.9	

- Deleted: 4 (... [245])
- Deleted: 60.4 (... [246])
- Deleted: 22.0 (... [247])
- Deleted: -96.1 (... [248])
- Deleted: 56.7 (... [249])
- Deleted: 87.7 (... [250])
- Deleted: 138.5 (... [251])
- Deleted: -111.0 (... [252])
- Deleted: -111.0 (... [253])
- Deleted: -103.1 (... [254])
- Deleted: -92.7 (... [255])
- Deleted: -92.7 (... [256])
- Deleted: 97.0 (... [257])
- Deleted: 140.7 (... [258])
- Deleted: -169.0 (... [259])
- Deleted: 113.0 (... [260])
- Deleted: 17.0 (... [261])
- Deleted: 98.0 (... [262])
- Deleted: 33.1 (... [263])
- Deleted: 41.0 (... [264])
- Deleted: 29.6 (... [265])
- Deleted: 55.6 (... [266])
- Deleted: 4 (... [267])
- Deleted: -108.2 (... [268])
- Deleted: 113.0 (... [269])
- Deleted: 42.3 (... [270])
- Deleted: 61.0 (... [271])
- Deleted: -37.2 (... [272])
- Deleted: -7.4 (... [273])
- Deleted: -33.5 (... [274])
- Deleted: -169.0 (... [275])
- Deleted: -48.6 (... [276])
- Deleted: -58.4 (... [277])
- Deleted: -58.4 (... [278])
- Deleted: 42.0 (... [279])
- Deleted: -38.5 (... [280])
- Deleted: -87.7 (... [281])
- Deleted: -15.2 (... [282])
- Deleted: 134.1 (... [283])
- Deleted: 134.1 (... [284])
- Deleted: 134.1 (... [285])
- Deleted: 134.1 (... [286])
- Deleted: 134.1 (... [287])
- Deleted: -12.6 (... [288])
- Deleted: -17.9 (... [289])
- Deleted: -70.0 (... [290])
- Deleted: -70.0 (... [291])
- Deleted: -70.0 (... [292])
- Deleted: -84.3 (... [293])
- Deleted: -12.2 (... [294])
- Deleted: 42.7 (... [295])
- Deleted: -40.2 (... [296])
- Deleted: -38.5 (... [297])
- Deleted: 0.2 (... [298])
- Deleted: 123.0 (... [299])
- (... [300])
- (... [301])
- (... [302])
- (... [303])
- (... [304])
- (... [305])
- (... [306])
- (... [307])
- (... [308])

10.70-10.95 GHz, 11.20-11.45 GHz, 12.75-13.25 GHz

1	2	3	4	5	6	7	8	9	10	11	
ABW00000	-98.2	-119.4	-18.9	-69.1	12.4	0.8	0.8	90.0	-5.5	-25.8	
ADL00000	113.0	113.0	114.3	140.0	-66.7	0.8	0.8	90.0	-9.3	-31.9	*/MB1
AFG00000	48.0	42.3	95.8	66.4	33.9	2.2	1.3	15.0	-3.2	-29.2	
AFS00000	71.0	-25.8	84.2	27.2	-30.1	5.3	1.4	128.0	4.2	-26.7	
AGL00000	-36.1	-37.2	74.1	15.9	-12.4	2.4	1.4	78.0	2.0	-25.9	
ALB00000	2.6	-29.9	69.8	20.0	41.1	0.8	0.8	90.0	-7.7	-28.2	
ALG00000	-33.5	-33.5	38.4	1.6	27.8	3.3	2.2	133.0	4.3	-26.6	
ALS00000	-159.0	-169.8	-158.2	-158.6	57.5	6.3	1.5	1.0	2.5	-28.7	*/MB2
AND00000	-41.0	-48.6	51.7	1.5	42.5	0.8	0.8	90.0	10.3	-30.0	
ARG00000	-51.0	-58.4	-51.0	-62.0	-33.6	4.8	2.9	93.0	10.3	-21.9	*/MB3
ARGINSUL	-51.0	-58.4	-51.0	-60.0	-57.5	3.6	1.3	154.0	-0.5	-28.6	*/MB3
ARS00000	52.0	20.1	60.0	45.7	23.1	3.7	2.6	153.0	1.7	-29.4	
ASCSTHTC	-37.1	-38.5	-27.1	-11.8	-19.6	5.6	1.8	77.0	3.0	-28.6	*/MB4
ATG00000	-77.7	-112.2	-11.4	-61.8	17.0	0.8	0.8	90.0	-6.3	-27.1	
ATN00000	-5.2	-50.1	1.9	-65.6	15.1	1.3	1.0	58.0	-0.2	-22.3	*/MB5
AUS00001	144.1	122.4	148.1	134.3	-24.5	6.6	5.3	146.0	14.3	-22.1	*/MB6
AUS00002	144.1	122.4	148.1	163.6	-30.5	1.6	1.0	15.0	-2.0	-26.5	*/MB6
AUS00003	144.1	122.4	148.1	101.5	-11.1	1.1	1.0	15.0	-6.0	-28.5	*/MB6
AUS00004	144.1	122.4	148.1	159.0	-54.5	0.8	0.8	90.0	-9.3	-32.3	*/MB6
AUS00005	144.1	122.4	148.1	110.4	-66.3	0.8	0.8	90.0	-9.3	-31.8	*/MB6
AUT00000	-2.6	-18.6	46.4	13.2	47.5	0.8	0.8	90.0	-7.2	-27.2	2
AZR00000	-7.9	-41.9	6.7	-28.0	38.7	0.8	0.8	90.0	-7.8	-27.9	*/MB7
B 00001	-65.0	-70.0	-60.1	-62.6	-6.0	4.1	4.0	43.0	10.7	-22.4	
B 00002	-61.1	-70.0	-60.1	-45.4	-6.3	4.6	4.1	152.0	11.3	-22.4	
B 00003	-68.7	-70.0	-60.1	-50.0	-20.9	4.3	3.0	60.0	9.8	-22.2	
BAH00000	-74.3	-121.1	-32.2	-75.8	24.0	1.6	1.0	133.0	0.1	-24.5	
BDI00000	-2.2	-30.5	90.4	29.9	-3.4	0.8	0.8	90.0	-9.3	-29.9	
BEL00000	52.7	-53.6	62.0	5.2	50.6	0.8	0.8	90.0	-9.3	-30.2	
BEN00000	-30.6	-40.2	44.7	2.3	9.3	1.2	1.0	89.0	-1.2	-23.0	
BERCAYMS	-37.1	-38.5	-27.1	-68.6	22.5	3.7	2.3	41.0	8.3	-21.9	*/MB4
BFA00000	10.2	-54.6	46.2	-1.4	12.2	1.7	1.0	24.0	0.3	-25.0	
BGD00000	133.0	44.6	135.5	90.2	24.0	0.8	0.8	90.0	-3.0	-21.9	
BHR00000	20.4	-18.6	119.8	50.6	26.1	0.8	0.8	90.0	-9.3	-32.2	
BLZ00000	-90.8	-138.4	-38.7	-88.6	17.2	0.8	0.8	90.0	-5.6	-26.6	
BOL00000	-35.0	-97.3	-23.2	-64.4	-17.1	2.7	1.7	129.0	5.2	-22.5	
BOT00000	19.9	-41.7	89.9	24.0	-21.8	1.5	1.5	94.0	-5.1	-30.0	
BRB00000	-29.8	-110.8	-8.4	-59.6	13.2	0.8	0.8	90.0	-6.1	-26.4	
BRM00000	110.8	57.6	131.0	97.0	18.9	3.2	1.6	88.0	5.5	-22.5	
BRU00000	157.3	71.5	157.7	114.6	4.5	0.8	0.8	90.0	-6.0	-24.9	
BTN00000	63.0	34.3	146.6	90.4	27.0	0.8	0.8	90.0	-9.3	-29.3	
BUL00000	50.4	-20.6	71.5	25.6	42.8	0.8	0.8	90.0	-6.9	-27.0	

- Deleted: 113.0 (... [269])
- Deleted: 42.3 (... [270])
- Deleted: 61.0 (... [271])
- Deleted: -37.2 (... [272])
- Deleted: -7.4 (... [273])
- Deleted: -33.5 (... [274])
- Deleted: -169.0 (... [275])
- Deleted: -48.6 (... [276])
- Deleted: -58.4 (... [277])
- Deleted: -58.4 (... [278])
- Deleted: 42.0 (... [279])
- Deleted: -38.5 (... [280])
- Deleted: -87.7 (... [281])
- Deleted: -15.2 (... [282])
- Deleted: 134.1 (... [283])
- Deleted: 134.1 (... [284])
- Deleted: 134.1 (... [285])
- Deleted: 134.1 (... [286])
- Deleted: 134.1 (... [287])
- Deleted: -12.6 (... [288])
- Deleted: -17.9 (... [289])
- Deleted: -70.0 (... [290])
- Deleted: -70.0 (... [291])
- Deleted: -70.0 (... [292])
- Deleted: -84.3 (... [293])
- Deleted: -12.2 (... [294])
- Deleted: 42.7 (... [295])
- Deleted: -40.2 (... [296])
- Deleted: -38.5 (... [297])
- Deleted: 0.2 (... [298])
- Deleted: 123.0 (... [299])
- (... [300])
- (... [301])
- (... [302])
- (... [303])
- (... [304])
- (... [305])
- (... [306])
- (... [307])
- (... [308])

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10.70-10.95 GHz, 11.20-11.45 GHz, 12.75-13.25 GHz

1	2	3	4	5	6	7	8	9	10	11	
CAF00000	14.8	-24.8	57.6	21.5	6.5	2.7	1.7	14.0	4.7	-22.8	
CANOEAST	-107.3	-108.0	-90.1	-76.6	50.1	5.0	1.7	154.0	7.1	-25.0	
CANOCENT	-111.1	-115.1	-101.0	-96.1	51.4	4.3	2.0	155.0	4.8	-26.7	
CANOWEST	-114.9	-119.0	-113.7	-120.1	57.4	3.1	1.9	173.0	0.3	-28.7	
CAR00000	-159.0	-169.8	-158.2	173.4	4.6	10.2	2.4	175.0	13.9	-21.0	*/MB2
CBG00000	96.1	61.2	144.2	105.1	12.9	1.2	1.0	35.0	-1.6	-23.2	
CHL00000	-74.9	-96.4	-53.6	-82.6	-32.8	8.1	6.1	155.0	9.9	-28.4	
CHN00001	101.4	90.4	139.4	103.7	35.0	8.1	4.3	2.0	14.5	-23.2	
CHN00002	135.5	75.0	151.3	114.8	16.4	4.9	2.4	65.0	9.1	-22.5	
CLM00000	-70.9	-110.1	-39.9	-74.0	5.7	4.0	2.3	121.0	8.0	-22.6	
CLN00000	121.5	28.1	131.9	80.1	7.7	0.8	0.8	90.0	-5.6	-24.8	
CME00000	21.4	-27.3	51.2	12.9	6.3	2.5	1.9	84.0	4.8	-22.7	
CNR00000	12.2	-31.1	24.2	-15.9	28.5	0.8	0.8	90.0	-9.3	-29.2	*/MB8
COG00000	-16.0	-24.7	56.5	14.8	-0.6	2.0	1.1	63.0	1.6	-22.7	
COM00000	94.5	-7.3	95.5	44.1	-12.2	0.8	0.8	90.0	-5.8	-24.7	
CPV00000	-85.7	-94.7	46.5	-24.1	16.0	0.8	0.8	90.0	-9.3	-30.4	
CTI00000	4.6	-15.0	27.1	-5.9	7.8	1.4	1.2	66.0	0.0	-23.1	
CTR00000	-96.0	-125.4	-44.0	-85.3	8.2	1.3	1.0	64.0	-1.2	-23.2	
CUB00000	-80.6	-123.5	-36.1	-79.5	21.0	2.0	1.0	172.0	1.0	-24.6	
CVA00000	58.1	-38.1	63.1	12.5	41.9	0.8	0.8	90.0	-8.4	-28.8	
CYP00000	-1.8	-21.5	87.9	33.2	35.1	0.8	0.8	90.0	-9.3	-29.8	
CYPSBA00	56.6	44.7	59.2	32.9	34.6	0.8	0.8	90.0	-9.3	-30.2	*/MB9
D 00000	26.4	-30.4	53.1	9.7	50.7	1.1	1.0	41.0	-6.8	-28.7	
DDR00000	37.0	-26.8	51.7	12.6	51.4	0.8	0.8	90.0	-8.4	-28.2	
DJI00000	-18.3	-28.4	113.6	42.6	11.7	0.8	0.8	90.0	-9.3	-30.5	
DMA00000	-69.6	-112.1	-10.5	-61.3	15.3	0.8	0.8	90.0	-6.4	-27.3	
DNK00001	32.2	-40.8	62.2	11.6	56.0	0.8	0.8	90.0	-9.3	-29.0	
DNK00002	-49.0	-50.0	-43.1	12.5	56.3	0.8	0.8	90.0	-7.3	-27.7	*/MB10
DNK00FAR	-49.0	-50.0	-43.1	-7.2	61.7	0.8	0.8	90.0	-9.3	-29.5	*/MB10
DOM00000	-85.4	-120.3	-20.5	-70.4	18.7	0.8	0.8	90.0	-6.3	-27.1	
E 00000	12.2	-31.1	24.2	-3.0	39.9	2.1	1.2	8.0	-1.8	-27.8	*/MB8
EGY00000	68.5	-10.3	69.5	30.3	26.2	2.3	1.5	54.0	-1.8	-28.8	
EQA00000	-104.0	-104.0	-94.1	-83.1	-1.4	3.1	1.4	174.0	4.7	-22.7	
ETH00000	57.5	-4.0	85.0	40.6	10.3	2.8	2.8	64.0	2.0	-28.6	
F 00000	0.9	-13.9	5.7	3.1	45.9	2.1	1.1	168.0	-0.2	-26.3	*/MB11
FJI00000	148.8	128.2	-131.1	178.5	-17.2	0.8	0.8	90.0	-6.1	-26.2	
FLKSTGGL	-37.1	-38.5	-27.1	-46.8	-59.6	3.7	1.4	170.0	0.0	-28.7	*/MB4
FNL00000	46.8	7.1	46.8	23.8	64.3	1.5	1.0	23.0	-5.3	-28.6	
G 00000	-37.1	-38.5	-27.1	-4.1	53.9	1.6	1.0	151.0	-3.8	-27.8	*/MB4
GAB00000	38.8	-29.2	52.0	11.7	-0.7	1.4	1.1	79.0	-0.6	-23.0	
GDL00000	0.9	-13.9	5.7	-61.9	16.3	0.8	0.8	90.0	-4.2	-23.1	*/MB11
GDL00002	-115.9	-123.2	-81.2	-61.8	16.4	0.8	0.8	90.0	-3.7	-22.7	*/MB13
GHA00000	16.0	-41.7	39.3	-1.3	7.7	1.5	1.1	90.0	-0.1	-23.0	
GIB00000	56.6	44.7	59.2	-5.4	36.1	0.8	0.8	90.0	-5.9	-27.0	*/MB9
GMB00000	-34.0	-77.3	44.5	-16.4	13.4	0.8	0.8	90.0	-9.3	-31.0	
GNB00000	40.0	-76.5	45.7	-15.4	12.0	0.8	0.8	90.0	-8.3	-28.8	
GNE00000	-32.3	-32.8	53.8	10.5	1.7	0.8	0.8	90.0	-5.9	-24.9	
GRC00000	16.6	-8.9	56.8	24.7	38.3	1.7	1.0	160.0	-1.8	-26.6	
GRD00000	-32.8	-113.0	-10.2	-61.6	12.0	0.8	0.8	90.0	-6.2	-26.5	
GRL00000	-49.0	-50.0	-43.1	-42.9	68.6	2.3	1.0	174.0	-2.4	-27.8	*/MB10
GTM00000	-135.7	-139.3	-41.4	-90.5	15.5	0.8	0.8	90.0	-3.3	-22.2	
GUF00000	0.9	-13.9	5.7	-53.2	4.3	0.8	0.8	90.0	-4.6	-23.6	*/MB11
GUF00002	-115.9	-123.2	-81.2	-53.3	4.3	0.8	0.8	90.0	-4.4	-23.4	*/MB13
GUI00000	27.5	-51.8	33.8	-10.9	10.2	1.3	1.1	104.0	-0.6	-22.9	
GUMMRA00	-159.0	-169.8	-158.2	145.4	16.7	1.7	1.0	79.0	0.9	-22.2	*/MB2
GUY00000	-24.1	-100.1	-18.3	-59.2	4.7	1.4	1.0	94.0	-0.5	-22.8	
HKG00000	56.6	44.7	59.2	114.5	22.4	0.8	0.8	90.0	-5.6	-24.5	*/MB9
HND00000	-76.2	-123.8	-48.1	-86.1	15.4	1.4	1.0	26.0	-0.9	-23.1	
HNG00000	-6.6	-22.2	62.4	19.4	47.4	0.8	0.8	90.0	-7.9	-28.1	2
HOL00000	-5.2	-50.1	1.9	5.4	52.4	0.8	0.8	90.0	-9.3	-30.8	*/MB5
HTI00000	-92.0	-122.9	-23.1	-73.0	18.8	0.8	0.8	90.0	-6.2	-26.9	
HWA00000	-159.0	-169.8	-158.2	-157.6	20.7	1.2	1.0	157.0	-1.3	-23.1	*/MB2
HWL00000	-159.0	-169.8	-158.2	-176.6	0.1	0.8	0.8	90.0	-6.4	-27.4	*/MB2
I 00000	-28.1	-32.9	54.1	11.3	40.9	2.1	1.0	141.0	-0.7	-26.4	
IND00000	74.0	51.3	116.4	82.7	18.9	6.2	4.9	120.0	13.5	-22.2	
INS00000	115.4	101.1	135.0	117.6	-1.8	9.4	4.3	170.0	14.6	-22.4	
IRL00000	-31.0	-41.0	25.7	-8.2	53.2	0.8	0.8	90.0	-9.3	-29.3	
IRN00000	25.0	20.1	50.0	54.3	33.0	3.7	1.5	143.0	2.0	-27.5	
IRQ00000	66.4	5.1	82.5	44.3	33.1	1.6	1.3	178.0	-3.1	-28.0	

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- Deleted: 4.8 ... [310]
- Deleted: -108.0 ... [311]
- Deleted: -115.1 ... [312]
- Deleted: -119.0 ... [313]
- Deleted: -169.0 ... [314]
- Deleted: 86.1 ... [315]
- Deleted: -84.9 ... [316]
- Deleted: 91.4 ... [317]
- Deleted: 125.5 ... [318]
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- Deleted: -94.7 ... [325]
- Deleted: -5.4 ... [326]
- Deleted: -106.0 ... [327]
- Deleted: -90.6 ... [328]
- Deleted: 48.1 ... [329]
- Deleted: -11.8 ... [330]
- Deleted: 46.6 ... [331]
- Deleted: 16.4 ... [332]
- Deleted: 27.0 ... [333]
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- Deleted: 36.8 ... [347]
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- Deleted: -50.0 ... [359]
- Deleted: -139.3 ... [360]
- Deleted: -9.1 ... [361]
- Deleted: -123.2 ... [362]
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- ... [373]

10.70-10.95 GHz, 11.20-11.45 GHz, 12.75-13.25 GHz

1	2	3		4	5	6	7	8	9	10	11
ISL00000	-35.4	-53.0	14.8	-18.2	64.9	0.8	0.8	90.0	-7.6	-27.4	
ISR00000	73.0	-8.0	78.4	35.0	31.3	0.8	0.8	90.0	-5.5	-26.3	
J 00000	152.5	94.4	170.9	140.4	30.4	5.7	3.7	15.0	12.0	-22.8	
JAR00000	-159.0	-169.8	-158.2	-160.0	-0.4	0.8	0.8	90.0	-6.6	-27.5	*/MB2
JMC00000	-108.6	-127.5	-27.8	-77.6	18.2	0.8	0.8	90.0	-6.0	-25.9	
JON00000	-159.0	-169.8	-158.2	-168.5	17.0	0.8	0.8	90.0	-9.3	-32.5	*/MB2
JOR00000	81.8	-28.8	102.9	36.7	31.3	0.8	0.8	90.0	-8.8	-28.5	
KEN00000	78.2	-10.4	86.3	38.4	0.8	2.1	1.3	95.0	-1.2	-27.6	
KER00000	113.0	113.0	114.3	69.3	-43.9	1.9	1.6	169.0	-1.3	-27.8	*/MB1
KIR00000	150.0	120.6	-134.6	173.0	1.0	0.8	0.8	90.0	-6.3	-27.1	
KOR00000	116.2	83.0	169.6	127.7	36.2	1.3	1.0	4.0	-3.4	-26.7	
KRE00000	145.0	110.1	150.0	127.8	39.8	1.4	1.0	14.0	-0.3	-23.3	
KWT00000	30.8	-20.2	115.3	47.7	29.1	0.8	0.8	90.0	-9.3	-31.6	1, 2
LAO00000	142.0	56.6	149.9	104.1	18.1	1.5	1.0	101.0	0.2	-22.6	
LBN00000	91.0	-31.6	103.2	35.8	33.8	0.8	0.8	90.0	-9.3	-30.5	
LBR00000	-41.8	-50.4	35.5	-8.9	6.5	0.8	0.8	90.0	-3.1	-22.1	
LBY00000	28.5	-19.2	54.9	19.0	25.9	3.0	2.7	165.0	3.1	-27.8	
LIE00000	7.9	-30.0	15.0	9.5	47.2	0.8	0.8	90.0	-9.3	-31.2	
LSO00000	-18.7	-40.1	96.9	28.4	-29.5	0.8	0.8	90.0	-9.3	-31.1	
LUX00000	19.2	-53.9	66.1	6.2	49.7	0.8	0.8	90.0	-9.3	-31.6	
MAC00000	117.0	64.7	162.4	113.6	22.2	0.8	0.8	90.0	-6.3	-27.1	
MAU00000	92.2	8.0	107.0	57.5	-20.2	0.8	0.8	90.0	-6.0	-25.6	
MCO00000	40.5	-41.8	56.6	7.4	43.7	0.8	0.8	90.0	-7.1	-27.8	
MDG00000	16.9	10.4	81.1	46.6	-18.7	2.6	1.0	66.0	2.5	-22.5	
MDR00000	-7.9	-41.9	6.7	-16.2	31.6	0.8	0.8	90.0	-9.3	-30.5	*/MB7
MDW00000	-159.0	-169.8	-158.2	-177.4	28.2	0.8	0.8	90.0	-9.3	-32.2	*/MB2
MEX00000	-113.0	-136.1	-61.0	-103.6	23.3	5.8	2.4	161.0	10.0	-23.7	
MLA00000	78.5	76.4	143.2	108.2	4.7	3.2	1.4	0.0	5.0	-22.3	
MLD00000	117.6	21.1	124.9	73.4	2.5	2.2	0.8	88.0	1.0	-22.4	
MLI00000	-1.3	-59.9	43.3	-3.9	17.6	3.3	2.5	21.0	7.2	-24.8	
MLT00000	5.6	-39.8	68.5	14.4	35.9	0.8	0.8	90.0	-9.3	-30.4	
MNG00000	113.6	60.4	148.9	103.8	46.8	3.6	1.1	3.0	0.6	-27.6	
MOZ00000	88.6	-10.6	90.6	35.6	-17.2	3.1	1.1	98.0	4.1	-22.0	
MRC00000	33.0	-50.5	37.5	-8.9	27.9	3.4	1.0	45.0	0.4	-27.0	
MRL00000	-159.0	-169.8	-158.2	175.3	8.7	2.3	1.4	94.0	3.6	-22.6	*/MB2
MTN00000	-22.8	-72.8	44.2	-10.3	19.8	2.5	2.4	76.0	1.0	-28.4	
MWI00000	30.3	-25.0	93.7	34.1	-13.3	1.6	1.0	101.0	-5.8	-29.3	
MYT00000	0.9	-13.9	5.7	45.2	-12.8	0.8	0.8	90.0	-5.9	-24.9	*/MB11
NCG00000	-84.4	-124.4	-45.9	-84.9	12.9	1.1	1.0	16.0	-1.9	-23.1	
NCL00000	113.0	113.0	114.3	165.8	-21.4	0.8	0.8	90.0	-5.0	-23.9	*/MB1
NGR00000	-38.5	-54.5	64.6	7.5	17.2	2.1	1.7	100.0	0.3	-27.3	
NIG00000	42.5	-29.6	49.6	8.0	9.9	2.5	1.6	47.0	4.3	-22.4	
NMB00000	13.4	-45.4	82.5	18.5	-21.0	2.7	2.6	155.0	0.2	-29.6	
NOR00000	3.9	2.9	29.1	11.7	64.6	2.0	1.0	17.0	-2.9	-27.7	
NPL00000	123.3	30.3	137.6	84.4	28.0	0.8	0.8	90.0	-6.3	-26.6	
NRU00000	146.0	114.5	-140.7	166.9	-0.5	0.8	0.8	90.0	-6.3	-27.2	
NZL00001	152.0	150.9	175.0	170.9	-44.8	5.4	1.0	49.0	2.9	-26.5	*/MB14
NZL00002	152.0	150.9	175.0	-165.4	-13.2	2.7	2.0	82.0	6.3	-22.0	*/MB14
OCE00000	-115.9	-123.2	-81.2	-141.9	-16.1	3.5	2.4	139.0	7.7	-24.2	*/MB13
OMA00000	104.0	-9.8	122.2	55.1	21.6	1.9	1.0	61.0	-5.1	-29.3	5
PAK00000	56.0	34.1	62.0	69.9	29.8	3.0	2.0	22.0	4.6	-25.7	
PHL00000	89.6	83.0	159.8	121.3	11.4	3.3	1.5	101.0	5.7	-22.3	
PLM00000	-159.0	-169.8	-158.2	-161.4	7.0	0.8	0.8	90.0	-6.7	-27.6	*/MB2
PNG00000	154.1	114.2	-176.5	148.4	-6.6	3.3	2.3	167.0	6.9	-22.7	
PNR00000	-79.2	-120.0	-40.4	-80.2	8.5	1.2	1.0	177.0	-1.5	-23.2	
POL00000	14.2	-14.8	56.4	19.3	52.0	1.3	1.0	166.0	-6.1	-28.7	
POR00000	-7.9	-41.9	6.7	-8.0	39.7	0.8	0.8	90.0	-8.1	-28.1	*/MB7
PRG00000	-81.5	-90.4	-23.2	-58.7	-23.1	1.5	1.3	116.0	1.0	-22.8	
PRU00000	-89.9	-120.4	-38.2	-74.2	-8.4	3.6	2.4	111.0	7.8	-22.5	
PTC00000	-62.0	-62.6	-58.5	-130.1	-25.1	0.8	0.8	90.0	-9.3	-31.5	
QAT00000	8.3	-16.9	120.0	51.6	25.4	0.8	0.8	90.0	-9.3	-31.5	
REU00000	0.9	-13.9	5.7	55.6	-21.1	0.8	0.8	90.0	-5.6	-24.6	*/MB11
REU00002	113.0	113.0	114.3	55.6	-21.1	0.8	0.8	90.0	-5.5	-24.5	*/MB1
ROU00000	31.0	-1.0	51.0	25.0	46.3	1.5	1.0	178.0	-4.3	-28.0	
RRW00000	6.8	-30.9	90.8	29.7	-1.9	0.8	0.8	90.0	-9.3	-30.8	
S 00000	11.2	-7.0	47.1	16.7	60.9	1.1	1.0	30.0	-6.4	-28.6	
SCN00000	-88.8	-113.2	-12.6	-62.9	17.3	0.8	0.8	90.0	-6.2	-26.5	
SDN00001	1.4	-7.0	15.0	29.3	10.3	3.0	1.9	131.0	4.7	-25.5	*/MB15
SDN00002	1.4	-7.0	15.0	29.4	16.7	2.6	2.4	171.0	0.5	-28.9	*/MB15

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10.70-10.95 GHz, 11.20-11.45 GHz, 12.75-13.25 GHz

1	2	3	4	5	6	7	8	9	10	11	
SEN00000	-48.4	-64.4	34.3	-14.0	14.1	1.1	1.0	148.0	-1.4	-23.8	
SEY00000	96.5	3.1	107.7	55.4	-4.5	0.8	0.8	90.0	-6.0	-25.2	
SLM00000	147.5	120.4	-161.7	159.0	-9.1	1.5	1.0	147.0	-0.3	-23.0	
SLV00000	-130.5	-130.5	-47.5	-89.0	13.7	0.8	0.8	90.0	-5.9	-24.9	
SMA00000	-159.0	-169.8	-158.2	-170.7	-14.2	0.8	0.8	90.0	-9.3	-32.5	*/MB2
SMO00000	-125.5	137.5	-121.7	-172.1	-13.7	0.8	0.8	90.0	-5.7	-24.6	
SMR00000	23.0	-36.4	61.4	12.5	43.9	0.8	0.8	90.0	-9.3	-30.3	
SNG00000	98.1	60.6	147.1	103.9	1.3	0.8	0.8	90.0	-6.4	-25.4	
SOM00000	98.4	-20.0	102.7	46.0	6.3	3.1	1.0	72.0	0.1	-26.9	
SPM00000	0.9	-13.9	5.7	-56.4	47.0	0.8	0.8	90.0	-6.3	-27.3	*/MB11
SRL00000	-51.8	-63.8	40.0	-11.9	8.5	0.8	0.8	90.0	-6.0	-25.4	
STP00000	31.4	-45.4	59.4	7.0	1.0	0.8	0.8	90.0	-6.2	-27.0	
SUI00000	-9.2	-20.0	35.0	8.2	46.5	0.8	0.8	90.0	-9.3	-29.4	2
SUR00000	-77.0	-97.0	-15.0	-55.6	3.9	1.0	0.9	37.0	-2.7	-23.2	
SWZ00000	29.0	-26.8	89.2	31.3	-26.4	0.8	0.8	90.0	-9.3	-30.9	
SYR00000	18.7	10.1	70.0	38.6	35.3	1.1	1.0	32.0	-6.2	-28.3	
TCD00000	-10.5	-36.5	67.5	18.4	15.6	3.5	1.6	97.0	5.9	-24.1	
TCH00000	-12.7	-21.3	54.4	17.3	49.6	1.3	1.0	166.0	-4.2	-27.4	2
TGO00000	-21.1	-41.0	43.4	0.8	8.6	1.1	1.0	116.0	-1.8	-23.2	
THA00000	120.6	58.6	137.2	100.9	12.8	2.8	1.6	83.0	4.9	-22.6	
TON00000	-128.0	135.7	-126.0	-175.2	-21.2	0.8	0.8	90.0	-5.8	-24.7	
TRD00000	-73.4	-112.3	-9.9	-61.1	10.8	0.8	0.8	90.0	-6.3	-27.3	
TUN00000	-4.1	-29.0	48.4	9.4	33.5	1.3	1.0	104.0	-5.0	-28.2	
TUR00000	9.4	7.1	61.6	34.1	38.9	2.8	1.0	171.0	0.9	-26.0	
TUV00000	158.0	127.3	-129.0	179.2	-8.5	0.8	0.8	90.0	-6.2	-27.1	
TZA00000	69.5	-21.3	91.4	35.4	-5.9	2.4	1.4	117.0	-0.4	-27.8	
UAE00000	70.4	-12.7	120.3	53.8	24.9	1.1	1.0	12.0	-8.8	-30.4	
UGA00000	32.0	-27.2	91.6	32.2	0.9	1.5	1.0	70.0	-5.4	-28.9	
URG00000	-86.1	-108.9	-3.5	-56.3	-33.7	1.1	1.0	58.0	-5.6	-27.7	
URS00001	61.0	56.7	65.4	57.6	48.3	7.5	3.5	178.0	8.8	-26.2	
URS00002	88.1	87.7	98.0	94.8	48.6	7.5	3.5	175.0	12.4	-26.2	
URS00003	138.5	138.5	140.6	134.9	52.6	7.5	3.5	5.0	8.7	-26.2	
USA00000	-101.0	-130.3	-63.5	-93.9	36.8	8.2	3.6	172.0	13.7	-23.2	*/MB16
USAVIPRT	-101.0	-130.3	-63.5	-64.5	17.8	0.8	0.8	90.0	-6.0	-25.5	*/MB16
VCT00000	-93.1	-112.3	-9.9	-61.1	13.2	0.8	0.8	90.0	-6.1	-26.2	
VEN00001	-82.7	-102.5	-24.7	-66.4	6.8	2.8	2.1	142.0	5.8	-22.7	*/MB17
VEN00002	-82.7	-102.5	-24.7	-63.6	15.7	0.8	0.8	90.0	-6.2	-27.0	*/MB17
VTN00000	107.0	85.1	125.0	108.5	14.2	3.6	2.6	139.0	8.2	-22.6	
VUT00000	150.7	127.4	-152.4	168.4	-17.2	1.2	1.0	122.0	-1.5	-23.1	
WAK00000	-159.0	-169.8	-158.2	166.5	19.2	0.8	0.8	90.0	-9.3	-32.0	*/MB2
WAL00000	113.0	113.0	114.3	-177.1	-13.8	0.8	0.8	90.0	-5.1	-24.1	*/MB1
YEM00000	27.0	-24.3	113.2	44.2	15.1	1.0	1.0	103.0	-8.9	-30.2	
YMS00000	108.0	-16.4	114.4	49.9	14.8	1.4	1.0	53.0	-4.8	-28.0	
YUG00000	43.1	-25.8	60.2	18.7	44.4	1.1	1.0	161.0	-4.7	-27.3	
ZAI00000	51.0	-23.6	62.6	24.4	-4.6	3.9	3.5	92.0	9.9	-22.3	
ZMB00000	39.6	-27.9	82.5	27.9	-12.8	2.4	1.6	26.0	-2.1	-29.2	
ZWE00000	65.6	-27.0	85.5	30.0	-18.9	1.5	1.1	140.0	-5.1	-28.9	

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SUP

ARTICLE 11

Period of validity of the provisions and associated Plan

NOC 11.1 These provisions and associated Plan have been prepared in order to guarantee in practice for all countries equitable access to the GSO and the frequency bands contained in Article 3, to meet the requirements of the fixed-satellite service for a period of at least 20 years from the date of entry into force of this Appendix.

NOC 11.2 These provisions and associated Plan shall, in any event, remain in force until their revision by a competent world administrative radio conference, convened in accordance with the relevant provisions of the Convention in force.

MOD

[Editorial Note: To be updated following discussions on the issue of new parameters for allotments]

[ANNEX 1 (WRC-03)]

Parameters used in characterizing the fixed-satellite service Plan

Section A – Technical data used in establishing the Allotment Plan and the associated provisions

1 Basic technical characteristics

The allotments in the Plan are based on a reference satellite network with the following assumptions:

1.1 Type of modulation

The Plan is independent of modulation characteristics and accessing techniques.

1.2 Carrier-to-noise ratio

The carrier-to-noise ratio (C/N) is as follows:

- a) the up-link C/N ratio is equal to 23 dB under rain fading conditions with a minimum earth station transmitter power density of -60 dB(W/Hz) averaged over the necessary bandwidth of the modulated carrier;
- b) the down-link C/N is equal to 17 dB under rain fading conditions;

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- c) the total C/N is equal to 16 dB under rain fading conditions;
- d) for the 6/4 GHz bands, the above C/N s are exceeded for 99.95% of the year
(NOTE – The rain attenuation margin is limited to a maximum of 8 dB);
- e) for the 13/10-11 GHz bands, the above C/N s are exceeded for 99.9% of the year
(NOTE – The rain attenuation margin is limited to a maximum of 8 dB);
- f) the rain attenuation model used is that described in ITU-R Report 564-3* (1986).

1.3 Earth station antenna elevation angle

The minimum elevation angle for each test point defining the service area is based on the following:

- 10° for climatic zones A to G;
- 20° for climatic zones H to L;
- 30° for climatic zones M and N;
- 40° for climatic zone P.

Administrations may select lower elevation angles for their service areas. For countries at high latitudes or with dispersed territories, in the absence of such a request, if the above values for minimum elevation angle are unobtainable, then the highest elevation angle leading to a non-zero service arc applies. In mountainous areas, the elevation angles are specified by the administrations concerned.

1.4 Interference criteria

The Plan has been prepared with a view to assuring for each allotment an aggregate carrier-to-interference ratio under free-space conditions of 26 dB or higher. WRC-03 decided to apply an aggregate carrier-to-interference ratio under free-space conditions of 23 dB for submissions received by the Bureau as from 5 July 2003. (WRC-03)

1.5 Polarization

Polarization isolation between satellite networks was not used in the development of the Allotment Plan.

1.6 Earth station characteristics

1.6.1 The diameters of the earth station antennas are:

7 m for the 6/4 GHz band;

3 m for the 13/10-11 GHz band.

1.6.2 The earth station receiving system noise temperature referred to the output of the receiving antenna is:

140 K for the 4 GHz band;

200 K for the 10-11 GHz band.

1.6.3 The earth station antenna efficiency is 70%.

1.6.4 The earth station antenna reference pattern applicable to all Part A allotments is shown in Table 1 below. If so desired by an administration, the improved side-lobe pattern shown in Table 2 below may be used. (WRC-03)

TABLE 1 (WRC-03)

$G_{max} = 10 \log (\eta(\pi D/\lambda)^2)$				
$G(\varphi) = G_{max} - 2.5 \times 10^{-3} \left(\frac{D}{\lambda} \varphi \right)^2$	for $0 < \varphi < \varphi_m$			
$G(\varphi) = \min (G_1, 29 - 25 \log \varphi)$	for $\varphi_m \leq \varphi \leq 19.95^\circ$			
$G(\varphi) = \max (\min (-3.5, 32 - 25 \log \varphi), -10)$	for $\varphi > 19.95^\circ$			
where:				
<table border="1" style="margin-left: 40px;"> <tbody> <tr> <td>D: antenna diameter</td> <td rowspan="2">} expressed in the same unit</td> </tr> <tr> <td>λ: wavelength</td> </tr> </tbody> </table>		D : antenna diameter	} expressed in the same unit	λ : wavelength
D : antenna diameter	} expressed in the same unit			
λ : wavelength				
φ : off-axis angle of the antenna (degrees)				
<table border="1" style="margin-left: 40px;"> <tbody> <tr> <td>G_1: gain of the first side lobe = $-1 + 15 \log \frac{D}{\lambda}$</td> </tr> </tbody> </table>		G_1 : gain of the first side lobe = $-1 + 15 \log \frac{D}{\lambda}$		
G_1 : gain of the first side lobe = $-1 + 15 \log \frac{D}{\lambda}$				
$\varphi_m = \frac{20\lambda}{D} - \sqrt{G_{max} - G_1}$ degrees				
η : antenna efficiency				

1.6.5 In cases where the aggregate C/I ratio of 26 dB cannot be obtained (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 23 dB (instead of the of 26 dB) shall be applied), it would be appropriate for the countries concerned to agree on the use of antennas with an improved sidelobe pattern or on other suitable means so as to obtain the above ratio (see Table 2 below). (WRC-03)

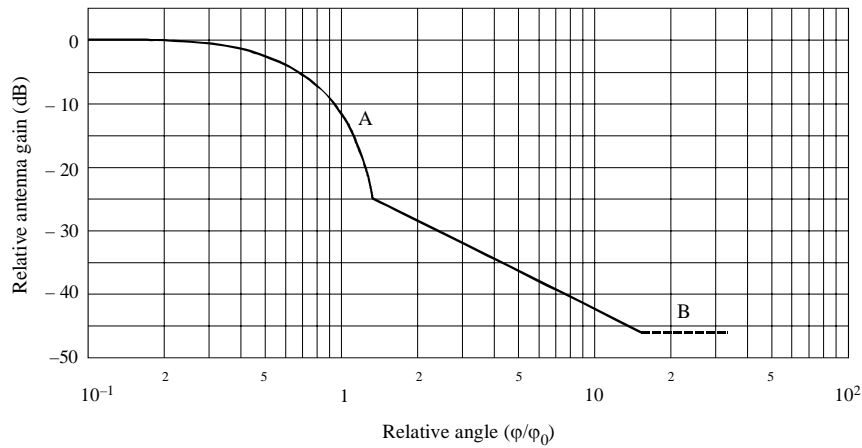
TABLE 2 (WRC-03)					
$G_{max} = 10 \log (\eta(\pi D/\lambda)^2)$					
$G(\varphi) = G_{max} - 2.5 \times 10^{-3} \left(\frac{D}{\lambda}\varphi\right)^2$	for $0 < \varphi < \varphi_m$				
$G(\varphi) = G_1$	for $\varphi_m \leq \varphi < \varphi_r$				
$G(\varphi) = 29 - 25 \log \varphi$	for $\varphi_r \leq \varphi < 36.3^\circ$				
$G(\varphi) = -10$	for $36.3^\circ \leq \varphi < 180^\circ$				
<p>where:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"> D: antenna diameter λ: wavelength </td> <td style="font-size: 2em; padding: 0 10px;">}</td> <td style="padding: 5px;">expressed in the same unit</td> </tr> </table> <p>φ: off-axis angle of the antenna (degrees)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 5px;"> G_1: gain of the first sidelobe = $-1 + 15 \log \frac{D}{\lambda}$ </td> </tr> </table> $\varphi_m = \frac{20\lambda}{D} - \sqrt{G_{max} - G_1} \quad \text{degrees}$ $\varphi_r = 15.85 \left(\frac{D}{\lambda}\right)^{-0.6} \quad \text{degrees}$ <p>η: antenna efficiency</p>		D : antenna diameter λ : wavelength	}	expressed in the same unit	G_1 : gain of the first sidelobe = $-1 + 15 \log \frac{D}{\lambda}$
D : antenna diameter λ : wavelength	}	expressed in the same unit			
G_1 : gain of the first sidelobe = $-1 + 15 \log \frac{D}{\lambda}$					

1.7 Space station characteristics

1.7.1 The allotment Plan is based on the use of space station antennas with beams of elliptical or circular cross-section.

1.7.2 The antenna radiation characteristics are as shown in Fig. 1. The fast roll-off characteristics shown in Fig. 2 may be used when so specified by administrations.

FIGURE 1
Reference patterns for satellite antennas



AP30BA1-01

$$G_{max} = 44.45 - 10 \log (\varphi_{01} \cdot \varphi_{02}) \quad \text{dBi}$$

Curve A: dB relative to main beam gain

$$-12 (\varphi/\varphi_0)^2 \quad \text{for } 0 \leq (\varphi/\varphi_0) \leq 1.45$$

$$-(22 + 20 \log (\varphi/\varphi_0)) \quad \text{for } (\varphi/\varphi_0) > 1.45$$

after intersection with Curve B: Curve B

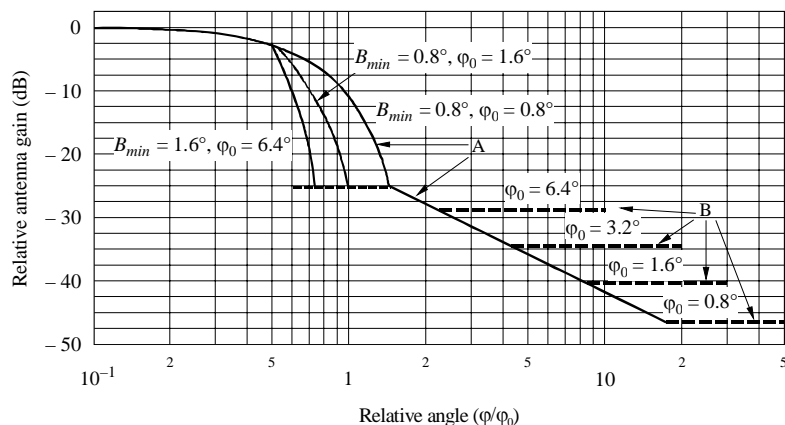
Curve B: Minus the on-axis gain (Curves B in this Figure illustrates the particular case of an antenna with an on-axis gain of 46 dBi)

$\varphi_{01}, \varphi_{02}$: Major and minor axis half-power beamwidth, respectively, of elliptical beam (degrees)

φ_0 : Cross-sectional half-power beamwidth in the direction of interest (degrees)

FIGURE 2* (WRC-03)

Reference patterns for satellite antennas
with fast roll-off in the main beam



RP/A1-02

Curve A: dB relative to main beam gain

$$-12 (\phi/\phi_0)^2 \quad \text{for } 0 \leq (\phi/\phi_0) \leq 0.5$$

$$-12 \left[\frac{(\phi/\phi_0) - x}{B_{min}/\phi_0} \right]^2 \quad \text{for } 0.5 < (\phi/\phi_0) \leq \left(\frac{1.45B_{min}}{\phi_0} + x \right)$$

$$-25.23 \quad \text{for } \left(\frac{1.45B_{min}}{\phi_0} + x \right) < (\phi/\phi_0) \leq 1.45$$

$$-(22 + 20 \log (\phi/\phi_0)) \quad \text{for } (\phi/\phi_0) > 1.45$$

after intersection with Curve B: Curve B.

Curve B: Minus the on-axis gain (Curve B represents examples of four antennas having different values of ϕ_0 as labelled in Fig. 2. The on-axis gains of these antennas are approximately 28.3, 34.3, 40.4 and 46.4 dBi, respectively)

where:

ϕ : off-axis angle (degrees)

ϕ_0 : cross-sectional half-power beamwidth in the direction of interest (degrees)

$$x = 0.5 \left(1 - \frac{B_{min}}{\phi_0} \right)$$

where:

$$B_{min} = \begin{cases} 0.8^\circ & \text{for 13/10-11 GHz} \\ 1.6^\circ & \text{for 6/4 GHz} \end{cases}$$

* Figure 2 represents patterns for same combinations of B_{min} and ϕ_0 . (WRC-03)

1.7.3 The space station receiving system noise temperature referred to the output of the receiving antenna is:

1 000 K for the 6 GHz band;

1 500 K for the 13 GHz band.

1.7.4 The minimum beamwidth size, in terms of the half-power beamwidth, is 1.6° for the 6/4 GHz band and 0.8° for the 13/10-11 GHz band.

1.7.5 The space station antenna efficiency is 55%.

1.7.6 The deviation of the space station antenna beam from its nominal pointing direction is limited to 0.1° in any direction. The rotation accuracy of elliptical beams is ±1.0°.

1.8 Bandwidth

The allotment Plan is based on the carrier power averaged over the necessary bandwidth of the modulated carrier and referred to a 1 MHz bandwidth.

]

SUP

Deleted: Section B – Generalized parameters used for determining when the assignments of a proposed satellite network are in conformity with the Plan¶

1. Introduction¶

1.1 . The *A, B, C, D* generalized parameters specify the interference-producing capability (variables *A* and *C*) and the interference sensitivity (variables *B* and *D*) of a satellite network.¶

1.2 . Since many different combinations of implementation parameters (such as antenna characteristics and transmitter powers) can result in a similar set of parametric values, it can be applied irrespective of the modulation characteristics and specific frequency used.¶

2 . Calculation of the *A, B, C, D* generalized parameters¶

2.1 . The following equations (see § 2.3 below) describe the *A, B, C, D* generalized parameters where:¶

A = . up-link off-axis e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier;¶

B = . up-link off-axis receiver sensitivity to interfering e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier;¶

C = . down-link off-axis e.i.r.p. density averaged over the necessary bandwidth of

[... [543]

Deleted: 2.2 . In the following equations, if measured data for the antenna gains are not available, the reference antenna radiation patterns chosen under § 1.6.4 and 1.7.2 of Annex 1, Section A should be used.¶

2.3 . The generalized parameters *A, B, C* and *D* are calculated as follows:¶

$$A = p_1 \cdot g_1(\theta) \frac{1}{\Delta g_2(\varphi)}$$

$$B = \frac{p_3 \cdot g_3}{\Delta g_3(\varphi)}$$

$$C = \frac{g_4(\theta)}{p_3 \cdot g_3 \cdot g_4}$$

$$D = \frac{g_4(\theta)}{p_3 \cdot g_3 \cdot g_4}$$

where:¶

(In the following, all ratios are numerical power ratios and the antenna gains are referred to an isotropic antenna.)¶

*p*₁ : . the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the transmitting earth station antenna (W/Hz)¶

*g*₁ : . the maximum gain of the earth station transmitting antenna¶

*g*₁(*θ*) : . the earth station transmitting antenna radiation pattern¶

*g*₂ : . the maximum gain of the space station receiving antenna¶

*g*₂(*φ*) : . the gain in the space station receiving antenn[... [544]

SUP

Deleted: ANNEX 2 (WRC-03)
Basic data to be furnished in notices relating to stations in the fixed-satellite service entering the design stage using frequency bands of the Plan
These data are listed in Appendix 4.

SUP

Deleted: ANNEX 3A
Criteria for determining when proposed assignments are considered as being in conformity with the Plan
In this method, the generalized parameters are calculated (see Annex 1, Section B), and the results are compared with the corresponding reference set:
– If the calculated *A*, *B*, *C* and *D* values are less than or equal to the relevant reference set, then the use of the assignment is considered to be in conformity with the Plan.
– If the calculated values of *A* or *C* are greater than the relevant reference set, the use of the assignment is considered not to be in conformity with the Plan.
– If the calculated values of *B* or *D* are greater than the relevant reference set, the assignment is protected only to the level of the relevant reference set.

SUP

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Macrosegmentation concept
In this method, an administration shall not be required to coordinate if, in addition to meeting the conditions of Annex 3A, the proposed frequency assignments are ordered in such a way that the upper 60% of each allotment band is used for high-density carriers and the lower 40% for low-density carriers.
For the purposes of this annex, the term “high-density carriers” shall be used for those carriers whose ratio of power spectral density peak (averaged over the worst 4 kHz) to average (defined over the necessary bandwidth of the modulated carrier) is greater than 5 dB; and the term “low-density carriers” shall be used for those for which this ratio is less than 5 dB.

[Editorial Note: This is to be reviewed after PT-1 reaches conclusions on protection criteria

ANNEX 4 (WRC-03)

Limits for determining whether an allotment or an assignment made in accordance with the provisions of Appendix 30B is considered to be affected

An allotment shall be considered as being affected by another administration if, at its nominal orbital position within the predetermined arc, the calculated single-entry carrier-to-interference ratio is less than or equal to 30 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 27 dB (instead of 30 dB) shall be applied), or the calculated value, based on the Plan, due to that other administration (whichever is the lower), at any test point within the service area of the interfered-with satellite network. The single-entry carrier-to-interference ratio is calculated using the method in Appendix 1 to this Annex.

An assignment shall be considered affected by a signal whose peak-to-average ratio (k) exceeds 5 dB in that portion of the spectrum which has been defined for low-density carrier usage, as identified in Annex 3B, if the single-entry carrier-to-interference ratio, calculated on the basis of power density averaged over the necessary bandwidth of the desired carrier, falls below:

$$25 + k \quad \text{dB}$$

(WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value $22 + k$ dB (instead of $25 + k$ dB) shall be applied.)

Even if the single-entry carrier-to-interference ratio is above 30 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 27 dB (instead of 30 dB) shall be applied) (or the calculated value based on the Plan due to that other administration, whichever value is lower), an allotment or an assignment shall be considered affected if the overall aggregate C/I , as calculated using Appendix 1 to this Annex, falls below 26 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 23 dB (instead of 26 dB) shall be applied) or the calculated value for the assignment, based on the Plan, whichever is lower.

APPENDIX 1 TO ANNEX 4

Method for determination of the single-entry and aggregate carrier-to-interference ratio averaged over the necessary bandwidth of the modulated carrier

1 Single-entry

This section describes the method for calculating the single-entry interference potential.

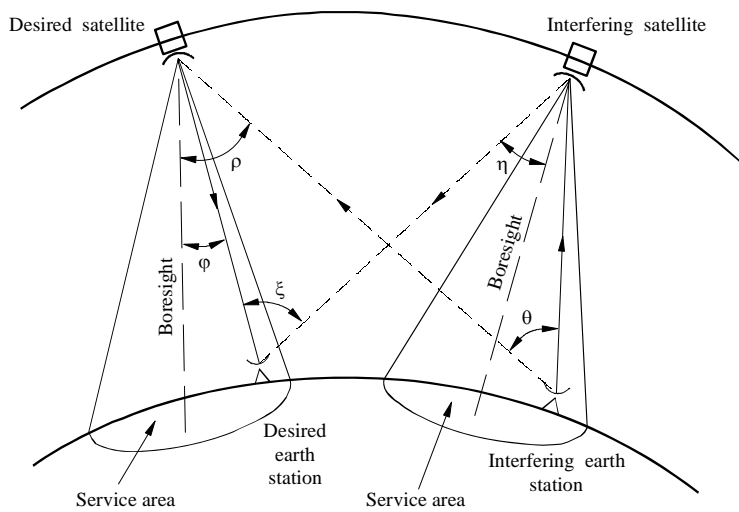
The method is based on the single-entry carrier-to-interference ratio (C/I) which a given allotment or assignment made in accordance with the provisions of Appendix 30B might experience due to emission from the proposed modification. The single-entry C/I due to a single interfering satellite network is given by:

$$(C/I)_t = \left(\frac{p_1' g_1'(\theta) g_2(\rho) 1_{su}}{p_1 g_1 g_2(\varphi) 1_{su'}} + \frac{p_3' g_3'(\eta) g_4(\xi) 1_{sd}}{p_3 g_3(\varphi) g_4 1_{sd'}} \right)^{-1}$$

or

$$(C/I)_t = \left(A'(\theta) \cdot B(\rho) \cdot \Delta g_2(\varphi) \frac{1_{su}}{1_{su'}} + C'(\eta) \cdot D(\xi) \cdot \Delta g_3(\varphi) \frac{1_{sd}}{1_{sd'}} \right)^{-1}$$

FIGURE 1



AP30BA4-01

where:

$\theta, \varphi, \rho, \eta, \xi$ are angles as defined in Fig. 1, above.

In the following, all ratios are numerical power ratios.

- p_1 : the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the desired earth station transmitting antenna (W/Hz)
- g_1 : the maximum gain of the desired transmitting earth station antenna
- 1_{su} : the free-space path loss of the desired up-path signal
- $1_{su'}$: the free-space path loss of the interfering up-path signal

$g_2(\varphi)$:	the gain of the desired space station receiving antenna in the direction of the desired earth station
$\Delta g_2(\varphi) = \frac{g_2}{g_2(\varphi)}$:	discrimination of the desired space station receiving antenna in the direction of the desired earth station
g_2 :	the maximum gain of the desired space station receiving antenna
p_1' :	the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the interfering earth station transmitting antenna (W/Hz)
$g_1'(\theta)$:	the interfering earth station antenna gain in the direction of the desired satellite
l_{sd} :	the free-space path loss of the desired down-path signal
l_{sd}' :	the free-space path loss of the interfering down-path signal
$g_2(\rho)$:	the gain of the desired space station receiving antenna in the direction of the interfering earth station
p_3 :	the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the desired space station transmitting antenna (W/Hz)
$g_3(\varphi)$:	the desired space station transmitting antenna gain in the direction of the desired earth station
$\Delta g_3(\varphi) = \frac{g_3}{g_3(\varphi)}$:	discrimination of the desired space station transmitting antenna in the direction of the desired earth station
g_3 :	the maximum gain of the desired space station transmitting antenna
g_4 :	the maximum gain of the desired receiving earth station antenna
p_3' :	the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the interfering space station transmitting antenna (W/Hz)
$g_3'(\eta)$:	the interfering space station transmitting antenna gain in the direction of the desired earth station
$g_4(\xi)$:	the desired earth station receiving antenna gain in the direction of the interfering satellite
A', C' :	value of A, C of the interfering network in the direction of the desired network
B, D :	value of B, D of the desired network in the direction of the interfering network.

A, B, C, D are defined in Annex 1, Section B.

2 Aggregate C/I

The aggregate C/I , is given by:

$$(C/I)_{agg} = \left(\sum_j \frac{1}{(c/i)_{tj}} \right)^{-1}$$

$$j = 1, 2, 3 \dots n,$$

where n is the total number of networks within the arc of the geostationary orbit visible to the desired network.]

SUP

Deleted: ANNEX 5 (WRC-03)
Application of the PDA

(predetermined arc) concept

1. The following method will be used in the application of the PDA concept, which is based on the criteria set out in § 1.1 below.

1.1. For the purposes of this Annex, an administration will be considered as being affected by another administration if, at its nominal orbital position within the predetermined arc, the calculated single-entry C/I is less than or equal to 30 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 27 dB (instead of 30 dB) shall be applied), or the calculated value, based on the Plan, due to that other administration (whichever is lower), at any test point within the service area of the interfered-with satellite network. The single-entry C/I is calculated by the method in Appendix 1 to Annex 4. Even if the single-entry C/I is above 30 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 27 dB (instead of 30 dB) shall be applied), or the calculated value, based on the Plan, due to that other administration (whichever is lower), an administration shall be considered as being affected if the overall aggregate C/I , calculated by the method in Appendix 1 to Annex 4, falls below 26 dB

Deleted: ⁹ (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 23 dB (instead of 26 dB) shall be applied), or the value for the assignment (whichever is lower). (WRC-03)

[Editorial Note: The relevance of this annex 6 is to be reviewed by PT-1.

ANNEX 6 (WRC-03)

Technical means which may be used to avoid incompatibilities between systems in the fixed-satellite service at their implementation stage

- 1 Improved frequency modulated TV carrier dispersal techniques with up to 4-5 MHz peak-to-peak deviation.
- 2 Frequency separation between signals with high peak spectral density and narrow-band signals (bandwidth segmentation).
- 3 The use of transmitting and receiving antennas with special beams providing minimum gain in the direction to neighbouring satellites.
- 4 Shaped beams for transmitting satellite antennas.
- 5 Transmission (modulation) and reception techniques allowing for the C/I ratios less than 23 dB (WRC-03 decided that for the examination of submissions received as from 5 July 2003 the value 23 dB (instead of 26 dB) shall be applied). (WRC-03]

Deleted: 1.2 The PDA Concept shall be applied in the following steps:¶
a) the order of all satellites and also the position of satellites in the "design" or "operational" stages shall be fixed so as to minimize the impact on these systems. Next, the nominal positions of "pre-design" systems shall be adjusted so as to compensate for the degraded C/I . The adjustments of nominal positions shall be limited to the range of their respective predetermined arcs;¶
b) if compatibility is not obtained through § 1.2 *a)*, the ordering of allotments of satellites in the "pre-design" stage shall be subject to change within their predetermined arcs, as defined in Article 5;¶
c) if the C/I objectives are not achieved, the affected administration may at this stage opt to select other measures than repositioning, as described in § 1.2 *d)* below;¶
d) if compatibility is not achieved under § 1.2 *b)*, and if the measures of § 1.2 *c)* are unsuccessful, the allotment(s)/assignment(s) subject to repositioning shall include the systems in the "design" stage, for their predetermined arc as defined in Article 5.¶
1.3 Administrations for which the criteria of § 1.1 are not met shall be identified for the purposes of this Annex.

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Satellite systems in Part B of Appendix 30B

The World Radiocommunication Conference (Geneva, 2007).

considering

a) that WARC-Orb-88 adopted a Plan for the fixed-satellite service in the frequency bands 4 500-4 800 MHz, 6 725-7 025 MHz, 10.70-10.95 GHz, 11.20-11.45 GHz and 12.75-13.25 GHz as contained in Appendix 30B;

b) that, when the Plan was adopted, some satellite systems in the same frequency bands were under coordination or had been recorded in the Master International Frequency Register (MIFR) or had information relating to advance publication that was received by the Radiocommunication Bureau before 8 August 1985;

c) that in the original provisions of Appendix 30B (WARC-Orb 88), the satellite systems referred to in *considering b*) above were designated as existing systems and were contained in Part B of the Plan;

d) that satellite systems identified in *considering b*) and in Part B of the Plan have either been included into the List of Appendix 30B or cancelled, and thus Part B of the Plan is empty. *recognizing*

a) that period of operation of satellite systems heretofore contained in Part B of the Plan expires after 16 March 2010, but some administrations expressed their wish to continue operation of these systems after the above-mentioned deadline;

b) that satellite systems referred to in *considering b*) are compatible with satellite networks in Appendix 30B.

resolves

1 that Part B of the Plan in Appendix 30B should be cancelled;

2 that use of frequency assignments to satellite systems identified in *considering b*) which are included into the List of assignments of Appendix 30B and recorded in the Master Register should continue in accordance with the notified period of validity as indicated in Master Register, providing that the notifying administration shall confirm to the Radiocommunication Bureau before 16 March 2010 that it is still having assignment of existing system(s) in operation, otherwise the assignment(s) in the Appendix 30B bands shall be cancelled by the Bureau from the Master Register and the List;

3. that if a notifying administration which wishes to extend the period of operation originally shown on the assignment notice of a frequency assignment to a satellite system identified in *considering b*) informs the Bureau accordingly ~~more than three years~~ before the expiry of the period in question and if ~~all other basic characteristics~~ of that assignment remain unchanged, the Bureau shall amend as requested the period of operation originally recorded in the Master Register and in the List and publish that information in a special section of the Bureau's International Frequency Information Circular (BR IFIC).

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instructs the Radiocommunication Bureau

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1. _____ to take the appropriate actions in accordance with *resolves 1, 2, and 3* above.

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- a) which has a requirement whose characteristics differ from those used in the preparation of Part A of the Plan; any such requirement shall be limited to the national coverage, taking into account technical constraints, of the administration concerned, unless otherwise agreed. Additionally, such requirement can be met only if the allotment of the interested administration, or part of this allotment, has been converted into an assignment, or if the requirement cannot be met by the conversion of the allotment into an assignment;
- b) which requires the use of all or part of its national allotment that has been suspended in accordance with § 6.54 of Article 6;
- c) which intends to participate in a subregional system using the procedures of Section III of Article 6, instead of using the procedures of Section II thereof.

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ARTICLE 5 (WRC-03)

The Plan and the associated List of assignments

5.1 The Plan consists of:

- a) Part A containing the allotments;
- b) Part B containing the networks of existing systems.

5.2 A List of assignments as described in § 5.5 will be associated with the Plan.

5.3 The predetermined arc (PDA) is a segment of the geostationary-satellite orbit (GSO) about a nominal orbital position intended to provide flexibility in the Plan.

- a) The size of the PDA depends on the stage of development of the satellite system:
 - for a system in the *pre-design stage*, the PDA is the fixed portion of the GSO defined by the intersection between a segment of $\pm 10^\circ$ about the nominal orbital position established at the Conference and the corresponding service arc. After twenty years from the date of entry into force of this Appendix, the PDA for a system in the pre-design stage is the fixed portion of the GSO defined by the intersection between a segment of $\pm 20^\circ$ about the nominal orbital position established at the Conference and the corresponding service arc, provided that the minimum elevation angle after the application of this procedure is not less than 20° or than the value indicated for each climatic zone in Annex 1 to this Appendix, whichever is larger, for all allotments affected;

- for a system in the *design stage*, the PDA is the fixed portion of the GSO defined by the intersection between a segment of $\pm 5^\circ$ about the nominal orbital position as may be modified by the application of this Appendix and the PDA defined for the pre-design stage;
 - for a system in the *operational stage*, the PDA will be considered as being zero.
- b) The stage of development to be associated with allotments in Part A and assignments in the List derived from allotments in Part A, with existing systems in Part B, with subregional systems or additional uses, is given in Table 1.
- c) An administration will not be considered to be affected if the nominal orbital position associated with its allotment in the Plan or with its assignments in the List is moved within the corresponding PDA while keeping an aggregate $C/I \geq 26$ dB. WRC-03 decided that for submissions received as from 5 July 2003 the value $C/I \geq 23$ dB shall be applied. (WRC-03)

TABLE 1

Stage of development	Part A allotments, subregional systems or additional uses	Part B
Pre-design	Part A allotments	–
Design	Assignments for which the Bureau has received complete information under § 6.2 of Section I or § 6.43 of Section II of Article 6	Networks for which the Bureau has received complete information to start the application of Section I of Article 9
Operational	Assignments for which the Bureau has received complete information under § 6.58 of Section III of Article 6 or for notification under Article 8	Networks for which the Bureau has received complete information, in order to start the application of Section II of Article 9 or for notification under Article 11

5.4 The PDA concept may be applied only:

- to provide an allotment to a new Member State of the ITU;
- in the process of conversion of an allotment into an assignment;
- to accommodate a subregional system;
- to resolve incompatibilities with existing systems (except for the implementation of additional uses);
- to resolve incompatibilities with the assignments in the List (except for the implementation of additional uses).

5.5 The List of Assignments to be associated with the Plan will contain:

- a) assignments derived from allotments in Part A of the Plan;

- b) assignments relating to existing systems in Part B of the Plan;
- c) assignments resulting from the introduction of subregional systems;
- d) assignments relating to additional uses.

5.6 Whenever a new assignment is entered in this List, the Bureau shall inform administrations in its International Frequency Information Circular (BR IFIC), indicating the characteristics of the assignment concerned.

Section I – Procedure for conversion of an allotment into an assignment

6.1 When an administration intends to convert an allotment into an assignment employing all or part of its allotment in Part A of the Plan, it shall, not earlier than eight years and not later than two years before the planned date of bringing the network into use, send to the Bureau the information specified in Appendix 4. If the assignment is not brought into use by that date, the assignments recorded in the Appendix 30B List shall be transferred to allotment(s) in Part A of the Appendix 30B Plan with the predetermined arc (PDA) defined for a system in the pre-design stage in accordance with § 5.3 of Article 5 of Appendix 30B, without any changes to other technical parameters of allotments, of existing systems or of assignments recorded in the List. (WRC-03)

6.2 Upon receipt of a complete notice of a frequency assignment related to that allotment, the Bureau shall examine it with respect to its conformity with Part A of the Plan.

6.3 A notice of an assignment is considered to be in conformity with Part A of the Plan if:

- a) the service area is not greater than the service area in Part A of the Plan;
- b) it meets the criteria of Annex 3A;
- c) the orbital position corresponds to the nominal orbital position in the Plan.

6.4 A notice shall be returned to the notifying administration whenever the service area is not within a geographical area for which the notifying administration is responsible.

6.5 When the Bureau finds that the proposed assignment is in conformity with § 6.3, the Bureau shall apply the provisions of Annex 3B.

6.6 When Annex 3B has been applied successfully and the Bureau has found that the proposed assignment is compatible with Part B of the Plan in accordance with Annex 4, the Bureau shall record the assignment in the List. The administration shall then notify the assignment in accordance with Article 8.

Page Break

6.7 When the Bureau finds that the proposed assignment is in conformity with Part A of the Plan after examination using Annexes 3A and 3B but it is incompatible with Part B of the Plan, the provisions of § 6.10 shall apply.

6.8 If a notice is not in conformity with Part A of the Plan, the provisions in Section IA shall apply.

6.9 If under § 6.5 after the application of Annex 3B coordination is required, then the provisions of Section IA beginning at § 6.18 shall apply.

6.10 For the purpose of resolving the incompatibilities mentioned in § 6.7:

- a) an administration responsible for an existing system or an additional use shall, depending on the stage of development of its system, take all technically and operationally possible measures to remove incompatibilities at the pre-design, design and operational stages in order to accommodate the requirements of the administration seeking to convert its allotment into an assignment;
- b) an administration whose allotment is being converted into an assignment shall assist in the resolution of incompatibilities;
- c) both administrations, with the assistance of the Bureau if requested, shall cooperate in reaching an equitable agreement, taking into account the respective stages of development of their systems and recognizing that a means must be found to convert the allotment into an assignment which is acceptable to both parties.

6.11 After resolution of any incompatibilities through the application of § 6.10, the Bureau shall record the assignment in the List. The administration shall then notify the assignment in accordance with Article 8.

Section IA – Procedure for conversion of an allotment into an assignment that is not in conformity with Part A of the Plan or that does not comply with Annex 3B

6.12 The Bureau shall use this Section to determine if the proposed assignment affects:

- a) the allotments in the Plan;
- b) the assignments which appear in the List;
- c) the assignments with respect to which the Bureau has previously received information in accordance with this Article.

6.13 If the proposed assignment is not in conformity with Annex 3A, the Bureau shall return the notice to the notifying administration indicating that it may take the following action:

- a) modify the characteristics of its proposed assignment in order to ensure its compatibility; *or*
- b) select an alternative orbital position, preferably within its PDA; *or*
- c) request the assistance of the Bureau in either course of action.

6.14 After the notice is returned to the administration following the application of § 6.13, the administration may resubmit the notice and the Bureau shall apply again the provisions starting at § 6.2, with the exception of § 6.3 c) which is not applicable.

6.15 When the Bureau is requested to assist in the selection of an alternative orbital position for the proposed assignment, it shall endeavour to identify an orbital position which would ensure compatibility with the allotments in the Plan and the assignments in the List and shall communicate the results to the notifying administration.

6.16 If it is not possible to solve the problem mentioned in § 6.13 after having considered the possibility of finding an alternative orbital position, the concept of PDA (Annex 5) shall be used by the notifying administration or by the Bureau, if its assistance is requested.

6.17 When § 6.16 has been applied successfully, the provisions of § 6.5 of Section I shall be applied.

6.18 If the provisions of Annex 3B are not met, the Bureau shall then identify affected administrations having assignments in the List by using the criteria of Annex 4.

6.19 If no administrations are affected under § 6.18, the Bureau shall record the assignment in the List. The administration shall then notify the assignment in accordance with Article 8.

6.20 If administrations are affected under § 6.18, the administration responsible for the proposed assignment shall seek the agreement of the affected administrations using the techniques described in Annex 6.

6.21 When agreement is reached, the administration responsible shall advise the Bureau which shall modify the orbital position and PDA in the Plan, if necessary, and shall record the assignment in the List with a special symbol. The administration shall then notify the assignment in accordance with Article 8.

6.22 The special symbol referred to in § 6.21 shall represent an undertaking by the administration responsible for the proposed assignment that it will accommodate, if necessary, future conforming assignments made under § 6.6.

6.23 When no agreement is reached under § 6.20, the notice shall be returned.

Section IB – Procedure for recording in the List of the existing systems contained in Part B of the Plan

6.24 The Bureau shall use the method of Annex 4 to determine whether the proposed assignment affects:

- a) the allotments in Part A;
- b) the existing systems in Part B

2;

- c) the assignments which appear in the List;
- d) the assignments with respect to which the Bureau has previously received information in accordance with this Article.

6.25 Assignments for networks contained in Part B of the Plan for which notices for recording in the Master Register were received by the Bureau prior to 29 August 1988 and recorded subsequently in the MIFR will be entered in the List. However, for notices received after 29 August 1988, the assignments will be entered in the List if the notified characteristics are identical to those contained in Part B of the Plan.

6.26 If, under § 6.24, no allotments or assignments are affected, the Bureau shall publish the results of its calculations in a Special Section of the BR IFIC and shall enter the proposed assignment in the List. The administration shall then notify the assignment in accordance with Article 8.

6.27 If, under § 6.24, allotments or assignments are affected

³, the Bureau shall return the notice to the notifying administration indicating that it may take the following action:

- a) modify the characteristics of its proposed assignment in order to ensure its compatibility; *or*
- b) select an alternative orbital position and proceed in accordance with § 6.24; *or*
- c) request the assistance of the Bureau in either course of action.

6.28 After the notice is returned to the administration following application of § 6.24, the administration may resubmit the notice and the Bureau shall apply again § 6.24 to § 6.27.

6.29 For existing systems in Part B of the Plan, as well as those entered in the List, the provisions of Resolution **51 (Rev.WRC-2000)** shall be applied. If the assignment is not brought into use in accordance with those provisions, the assignments recorded in the Appendix **30B** List or existing systems in Part B of the Appendix **30B** Plan, as appropriate, shall be cancelled and the Bureau shall also update the reference situation of all allotments, existing systems and assignments recorded in the List, without any changes to their technical parameters. (WRC-03)

6.30 When the Bureau is requested to assist in the selection of an alternative orbital position for the proposed assignment, it shall endeavour to identify an orbital position which would ensure compatibility with the allotments in the Plan and the

² Administrations with networks in Part B shall continue to apply the provisions of Section II of Article **9** with respect to other networks listed in Part B.

³ Incompatibility between assignments in Part B shall be disregarded whenever an agreement under the provisions of Section II of Article **9** was obtained.

assignments in the List and shall communicate the results to the notifying administration.

6.31 If it is not possible to solve the problem of incompatibility mentioned in § 6.27 after having considered the possibility of finding an alternative orbital position, the concept of PDA shall be used (see § 5.3 of Article 5) by the notifying administration or by the Bureau, if its assistance is requested.

6.32 If § 6.31 has been successfully applied, the Bureau shall use the method of Annex 4 as in § 6.24.

6.33 If § 6.31 and § 6.32 have been successfully applied, the Bureau shall publish the results of its calculations and the modified orbital positions in a Special Section of the BR IFIC.

Page Break

6.34 If, within forty-five days of the BR IFIC mentioned in § 6.33 the Bureau receives no comments, it shall be deemed that there are no objections to the proposed relocations and the Bureau shall record the assignment in the List. The administration shall then notify the assignment in accordance with Article 8. (WRC-03)

6.35 Comments under § 6.34, if any, shall be limited to the case of an administration believing that the agreed protection criteria have not been met or to the case in which the administration envisages problems in re-coordinating any satellite network under consideration. If such comments are received the Bureau shall initiate the appropriate action to resolve the problem.

6.36 In the event of an unsuccessful application of § 6.31 and § 6.32, the provisions of § 6.37 shall apply (with respect to incompatibilities with allotments and assignments derived from allotments).

6.37 If it is necessary for the purpose of resolving the incompatibilities mentioned in § 6.32:

- a) the administration responsible for an existing system shall, depending on the stage of development of its system, take all technically and operationally possible measures to remove incompatibilities;
- b) an administration whose allotment or assignment is being affected shall assist in the resolution of incompatibilities;
- c) both administrations, with the assistance of the Bureau if requested, shall cooperate in reaching an equitable agreement, taking into account the respective stages of development of their systems

Section II – Procedure for the introduction of a subregional system

bring into use a subregional

use the method of Annex 4 to determine whether the proposed assignment affects:

- a) the allotments in the Plan;
- b) the assignments which appear in the List;

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- c) the assignments for which the Bureau has previously received complete information in accordance with this Article. (WRC-03)

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6.43*bis* In the case where multiple consecutive complete notices belonging to the same notifying administration have to be examined under § 6.43 without any notice from other administrations having been received in the meantime, the Bureau shall implement, whenever feasible, the following measures, where applicable, in order to accelerate, to the maximum extent possible, the processing of the notices:

- simultaneous processing of the information relating to the 6/4 and 13/10-11 GHz frequency bands in the same network having the same or different date of receipt;
- sequential examination of networks having the same or different date of receipt. The Bureau's finding for all these networks shall be given at the same time and the publication of all related special sections under § 6.49 shall be included in a single set of publications with one single deadline for comments and published in the same BR IFIC. (WRC-03)

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with regard to compatibility

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6.47 When the Bureau is requested to assist in the selection of an alternative orbital position for the proposed assignment, it shall endeavour to identify an orbital position which would ensure compatibility with the allotments in the Plan and the assignments in the List and shall communicate the results to the notifying administration.

6.48 If it is not possible to solve the problem of incompatibility mentioned in § 6.45 after having considered the possibility of finding an alternative orbital position, the concept of PDA shall be used (see § 5.3 of Article 5) by the notifying administration or by the Bureau, if its assistance is requested.

6.49 In the event of a successful application of § 6.48, the Bureau shall publish the result of its calculations and the modified orbital locations in a Special Section of the BR IFIC.

6.50 If, within forty-five days from the date of the BR IFIC mentioned in § 6.49, the Bureau receives no comments, it shall be deemed that there are no objections to the proposed solution and the proposed assignment shall be recorded in the List. The administration shall then notify the assignment in accordance with Article 8. Comments, if any, shall be limited to the case of an administration believing that the agreed protection criteria have not been met. If it receives such comments, the Bureau shall initiate the appropriate action to resolve the matter. (WRC-03)

6.51 In the event of an unsuccessful application of § 6.48, § 6.49 and § 6.50, the Bureau shall return the notice to the notifying administration.

6.52 If an administration withdraws from a subregional system, it shall inform the Bureau. The Bureau shall take account of this withdrawal when applying the provisions relating to the compatibility of new assignments.

6.53 If an administration which has withdrawn from a subregional system wishes to implement a national system, and is unable to satisfy the condition of § 6.39 for the use of all or part of its allotment, it may proceed under the provisions of Section III of this Article relating to additional uses for the allotment or part of the allotment, as appropriate.

subregional system is terminated by the participating administrations

as early as possible and the Bureau shall:

- a) publish this information in a Special Section of its BR IFIC;
- b) cancel all frequency assignments in the List relating to that system;
- c) modify Part A of the Plan to indicate that the corresponding national allotments are no longer suspended.

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**Section III – Supplementary provisions applicable to additional uses
in the planned bands**

6.55 These bands are used for the fixed-satellite service Plan and their use in accordance with this Section should be avoided if possible. Administrations are urged to use other available bands.

6.56 An administration, or one acting on behalf of a group of administrations, may apply the procedure of this Section for an additional use as defined in Article 2, provided that the proposed assignments have a maximum period of validity of 15 years and will not, except if agreed to by the administrations affected, require any displacement of the orbital position of an allotment in Part A of the Plan or the orbital position of an assignment in the List, nor be incompatible with:

- a) the allotments in the Plan;
- b) the assignments in the List;
- c) the assignments for which the Bureau has previously received information in accordance with this Article.

6.56bis In the case where multiple consecutive complete notices belonging to the same notifying administration have to be examined under § 6.56 without any notice from other administrations having been received in the meantime, the Bureau shall implement, whenever feasible, the following measures, where applicable, in order to accelerate, to the maximum extent possible, the processing of the notices:

- simultaneous processing of the information relating to the 6/4 and 13/10-11 GHz frequency bands in the same network having the same or different date of receipt;
- sequential examination of networks having the same or different date of receipt. The Bureau's finding for all these networks shall be given at the same time. (WRC-03)

6.57 For this purpose it shall, not earlier than eight years and not later than two years before the planned date of bringing the related assignment into use, send the information specified in Appendix 4 to the Bureau. If the assignment is not brought into use by that date, the Bureau shall:

- a) cancel the related special sections and/or circular telegrams, as appropriate, and the assignments recorded in the Appendix 30B List;
- b) reactivate any relevant suspended allotments; *and*
- c) update the reference situation of all allotments, existing systems and assignments recorded in the List, without any changes to their technical parameters. (WRC-03)

6.58 Upon receipt of a complete notice, the Bureau shall examine it to ensure its compliance with § 6.56 and in the event of non-compliance the notice shall be returned to the notifying administration.

6.59 If the Bureau finds that the notice complies with the provisions of § 6.56 it shall enter the assignment in the List. The administration shall then notify the assignment in accordance with Article 8.

6.60 The provisions of this Section shall not be applied before one year from the date of entry into force of this Plan.

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17.5

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Vertical Alignment: Top

B COLUMN HEADINGS OF PART B OF THE PLAN

- Col. 1 *Beam identification*
- Col. 2 *Administration*
- Col. 3 *Space station name*
- Col. 4 *Orbital position*, in degrees and hundredths of a degree East longitude
- Col. 5 *Western limit of visible arc*, in degrees and tenths of a degree East longitude (if no visible arc is given, this value is that of the orbital position)
- Col. 6 *Eastern limit of visible arc*, in degrees and tenths of a degree East longitude (if no visible arc is given, this value is that of the orbital position)
- Col. 7 *Western limit of service arc*, in degrees and tenths of a degree East longitude
- Col. 8 *Eastern limit of service arc*, in degrees and tenths of a degree East longitude
- Col. 9 *Predetermined arc* (western and eastern limits in degrees and tenths of a degree)
- Col. 10 *Use of 4 GHz band*
(0 = no, 1 = yes)
- Col. 11 *Use of 6 GHz band*
(0 = no, 1 = yes)
- Col. 12 *Use of 10-11 GHz band*
(0 = no, 1 = yes)
- Col. 13 *Use of 13 GHz band*
(0 = no, 1 = yes)

- Col. 14 *Satellite antenna boresight longitude*, in degrees and tenths of a degree East longitude
- Col. 15 *Satellite antenna boresight latitude*, in degrees and tenths of a degree North latitude
- Col. 16 *Satellite antenna major axis beamwidth* (this is the half-power beamwidth, expressed in degrees and tenths of a degree)
- Col. 17 *Satellite antenna minor axis beamwidth* (this is the half-power beamwidth, expressed in degrees and tenths of a degree)
- Col. 18 *Satellite antenna major axis orientation*, in degrees and tenths of a degree anticlockwise with respect to the equatorial plane
- Col. 19 *Names of other beams on the same satellite*

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- Col. 20 *Power density* fed to transmitting earth station antenna in dB(W/Hz) averaged over the necessary bandwidth (if the network does not operate in any of the up-link frequency bands of the Plan, no value is entered)
-
- Col. 21 *Transmitting earth station antenna gain*, in dBi (if the network does not operate in either of the up-link frequency bands of the Plan, no value is entered)
- Col. 22 *Earth station antenna side-lobe characteristic* (this is the value X to be used in the equation: $G(h) = X - 25 \log(h)$ dBi (if no value is given, it is set to 32.0 dBi))
- Col. 23 *Satellite antenna gain*, in dBi (the value shown applies to both the transmitting and the receiving antennas)
- Col. 24 *Satellite antenna pattern* (1 = Figure 1 of Annex 1; 2 = Figure 2 of Annex 1)
- Col. 25 *Satellite receiving system noise temperature*, in kelvins (if the network does not operate in either of the up-link frequency bands of the Plan, no value is entered)

⁸ *Note by the Secretariat (applicable when an asterisk (*) appears in column 19):* It is to be noted that this beam is intended to be implemented as part of a multi-beam network, operating from a single orbital location. Within any multi-beam network, the beams are the responsibility of a single administration, hence interference between them has not been taken into account during the Conference. The number which appears in the alphanumeric code that follows the asterisk serves to identify the multi-beam network concerned.

- Col. 26 *Power density* fed to transmitting space station antenna, in dB(W/Hz) averaged over the necessary bandwidth (if the network does not operate in any of the down-link frequency bands of the Plan, no value is entered)
- Col. 27 *Receiving earth station antenna gain*, in dBi (if the network does not operate in either of the down-link frequency bands of the Plan, no value is entered)
- Col. 28 *Earth station receiving system noise temperature*, in kelvins (if the network does not operate in either of the down-link frequency bands of the Plan, no value is entered)

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Section B – Generalized parameters used for determining when the assignments of a proposed satellite network are in conformity with the Plan

1 Introduction

1.1 The *A*, *B*, *C*, *D* generalized parameters specify the interference-producing capability (variables *A* and *C*) and the interference sensitivity (variables *B* and *D*) of a satellite network.

1.2 Since many different combinations of implementation parameters (such as antenna characteristics and transmitter powers) can result in a similar set of parametric values, it can be applied irrespective of the modulation characteristics and specific frequency used.

2 Calculation of the *A*, *B*, *C*, *D* generalized parameters

2.1 The following equations (see § 2.3 below) describe the *A*, *B*, *C*, *D* generalized parameters where:

A = up-link off-axis e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier;

B = up-link off-axis receiver sensitivity to interfering e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier;

C = down-link off-axis e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier;

D = down-link off-axis receiver sensitivity to interfering e.i.r.p. density averaged over the necessary bandwidth of the modulated carrier.

2.2 In the following equations, if measured data for the antenna gains are not available, the reference antenna radiation patterns chosen under § 1.6.4 and 1.7.2 of Annex 1, Section A should be used.

2.3 The generalized parameters A , B , C and D are calculated as follows:

$$A = p_1 \cdot g_1(\theta)$$

$$B = \frac{1}{p_1 \cdot g_1 \cdot \Delta g_2(\varphi)}$$

$$C = \frac{p_3 \cdot g_3}{\Delta g_3(\varphi)}$$

$$D = \frac{g_4(\theta)}{p_3 \cdot g_3 \cdot g_4}$$

where:

(In the following, all ratios are numerical power ratios and the antenna gains are referred to an isotropic antenna.)

p_1 : the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the transmitting earth station antenna (W/Hz)

g_1 : the maximum gain of the earth station transmitting antenna

$g_1(\theta)$: the earth station transmitting antenna radiation pattern

g_2 : the maximum gain of the space station receiving antenna

$g_2(\varphi)$: the gain in the space station receiving antenna in the direction of the earth station

$\Delta g_2(\varphi) = \frac{g_2}{g_2(\varphi)}$: discrimination of the space station receiving antenna in the direction of the earth station

p_3 : the power density, averaged over the necessary bandwidth of the modulated carrier, fed into the space station transmitting antenna (W/Hz)

- g_3 : the maximum space station transmitting antenna gain
- $g_3(\varphi)$: the space station transmitting antenna gain in the direction of the earth station
- $\Delta g_3(\varphi) = \frac{g_3}{g_3(\varphi)}$: discrimination of the space station transmitting antenna in the direction of the desired earth station
- g_4 : the maximum gain of the earth station receiving antenna
- $g_4(\theta)$: the earth station receiving antenna radiation pattern.

NOTE – The parameters p_1 , $p_1 \cdot g_1$, $p_3 \cdot g_3$ and $p_3 \cdot g_3 \cdot g_4$ will be calculated by the Bureau and will be published in a BR circular-letter. These calculations will be made using Fig. 1, Fig. 2 and Table 1, as appropriate.