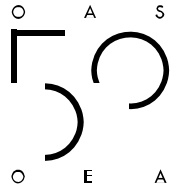




ORGANIZATION OF AMERICAN STATES
Inter-American Telecommunication Commission



**X MEETING OF PERMANENT
CONSULTATIVE COMMITTEE III:
RADIOCOMMUNICATIONS
June 8 to 12, 1998
Natal, Brazil**

**OEA/Ser.L/XVII.4.3
PCC.III/doc. 1054 /98 rev.1
20 June 1998
Original: inglés**

FINAL REPORT

TABLE OF CONTENTS

I. AGENDA	1
II. MEETING AUTHORITIES	1
III. RESOLUTIONS	2
PCC.III/RES.65 (X-98)	2
ON SUBMITTING JOINT PROPOSALS/DOCUMENTS TO THE ITU-R	
PCC.III/RES. 66 (X-98)	4
AGENDA, VENUE AND DATE OF THE ELEVENTH MEETING OF PCC.III	
PCC.III/RES. 67 (X-98)	5
SEMINAR ON THE GLOBAL POSITIONING SATELLITE SYSTEM AND RADIONAVIGATION-SATELLITE SERVICE/AERONAUTICAL RADIONAVIGATION USE OF THE FREQUENCY BAND 1559-1610 MHZ	
PCC.III/RES. 68 (X-98)	6
SEMINAR ON “COSTS INCURRED IN THE USE OF THE RADIOELECTRIC SPECTRUM IN THE AMERICAS BY THE VARIOUS RADIOCOMMUNICATION SERVICES”	
IV. RECOMMENDATIONS	7
PCC.III/REC. 37 (X-98).....	7
USE OF MOBILE SATELLITE SYSTEMS OVER 1 GHz IN THE AMERICAS	
PCC.III/REC. 38 (X-98).....	10
REGULATORY ADJUSTMENT FOR INCREASING TELEDENSITY	
PCC.III/REC. 39 (X-98).....	11
IDENTIFICATION OF SPECTRUM IN THE BANDS OF 440-450 AND 485-495 MHZ FOR FIXED WIRELESS ACCESS (FWA) IN THE AMERICAS	
PCC.III/REC. 40 (X-98).....	12
TIMELY IMPLEMENTATION OF ITU GMPCS ARRANGEMENTS	
V. DECISIONS.....	14
PCC.III/DEC. 27 (X-98).....	14
IDENTIFICATION OF PRESENT AND PLANNED USAGE OF THE 746-806 MHZ BAND	
V. LIST OF THE BASIC DOCUMENTS RESULTING FROM THE TENTH MEETING OF PCC.III: RADIOCOMMUNICATIONS	14

FINAL REPORT

TENTH MEETING OF THE PERMANENT CONSULTATIVE COMMITTEE III: RADIOCOMMUNICATIONS (PCC.III)

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications was held in Natal, RN, Brazil, 8 to 12, June of 1998.

I. AGENDA¹

1. Approval of Agenda and Schedule.
2. Appointment of the Drafting Group for the Final Report.
3. Report of Chairpersons of Working Groups on the following topics:
 - 3.1 1997 World Radio Conference
 - 3.2 Satellite systems on the geostationary orbit.
 - 3.3 Networks and services that use very small aperture terminals (VSAT).
 - 3.4 Personal Communication Systems and Related Systems (wireless fixed access - FWA - and their coexistence with PCS).
 - 3.5 Legal Matters and Administrative Procedures (Joint Working Group of PCC.I, PCC.II and PCC.III).
 - 3.6 Local Multipoint Distribution /Communication Systems.
 - 3.7 Human Resources.
 - 3.8 Low Earth Orbit Systems below 1 GHz (LEO MSS) and their implementation in the Americas.
 - 3.9 Implementation of mobile satellite services above 1 GHz.
4. Report on the Regional database on the use of the spectrum.
5. Implementation of World Maritime Rescue and Safety System (SMSS) including regional satellite mobile service systems in 1.5-1.6 GHz participating of the same.
6. Discussions on subjects of the World Telecommunication Policy Fora.
7. Report on the CITEL's 1998 Assembly.
8. Report on CITEL's preparation for ITU's Conferences of Plenipotentiaries and for the World Meeting on Telecommunications Development.
9. Preparation of the 1999 World Radio Conference (WRC-99).
10. Agenda, Venue and Date of the Eleventh Meeting of PCC.III.
11. Other matters.
12. Approval of the Report of the Tenth Meeting.

II. MEETING AUTHORITIES

¹ Distributed as PCC.III/doc.938/98 rev.1

Chairman:	Mrs. Salma Jalife (Mexico)
Vicechairman:	Mr. Amadeo Castro Neto (Brazil)
Executive Secretary	Mr. Roberto Blois Montes de Souza (CITEL)
Chairman of the Group for the Drafting of the Final Report:	Mr. Motokazu Okura (Brazil)
Members:	Mr. Alexandre Castro (Brazil)
	Ms. Elizabeth Oliva (Mexico)
	Ms. Marcy Ost (United States)
	Ms. Mindel De La Torre (United States)

III. RESOLUTIONS

PCC.III/RES.65 (X-98)²

ON SUBMITTING JOINT PROPOSALS/DOCUMENTS TO THE ITU-R

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That there is a need for a procedure to submit joint documents to the ITU-R, especially for World Conferences.

RECOGNIZING:

That PCC.III Member Administrations have identified the benefits of submitting joint documents to the ITU-R.

RESOLVES:

- a) That PCC.III adopt the procedure attached in the Annex for submitting joint documents to the ITU-R; and
- b) That This Resolution replace Resolution PCC.III/RES. 47 (VI-96).

INSTRUCTS THE EXECUTIVE SECRETARIAT:

1. To distribute proposals/documents, identified by PCC.III as candidate proposals/documents for joint submission to the ITU, to CITEL administrations as provided for in the attached annex; and

² Distributed as PCC.III/doc.955/98 rev.1.

2. To forward joint Inter-American proposals to appropriate ITU authorities in accordance with the attached annex and ITU procedures.

ANNEX

Procedures for Submitting joint Proposals/documents to the ITU-R

1. In preparatory meetings held before the commencement of an ITU-R meeting, PCC.III will identify draft joint proposals/documents that were presented to the Plenary and achieved consensus. The names of all CITELE members will appear in square brackets on the front heading of these proposals/documents. The fact that all CITELE administrations names appear on draft proposals/documents does not indicate their acceptance of these proposals/documents.
2. In order to appear as a supporting administration on a final Inter-American Proposal or other ITU-R document, administrations may request during a PCC.III meeting that their country name be placed on the final document. In such cases, the administrations name will be removed from square brackets and placed below those names still appearing in square brackets.
3. Alternatively, administrations participating in the PCC.III meetings may request the Executive Secretariat within two weeks after the close of the meeting to remove their name from square brackets and place it with other administrations that have approved the document.
4. The CITELE Executive Secretariat, on behalf of PCC.III, will distribute the Draft Proposals/Documents to all CITELE Administrations two weeks after the close of the PCC.III meeting for their review.
5. The Administration who originates the draft proposal/document shall undertake the task of coordinating and encouraging support of the document. In the event that more than one administration is the originator, then it should be decided at the PCC.III meeting when the proposal is first introduced which administration will undertake the role of coordinator.
6. Administrations may request the Executive Secretariat to remove the square brackets from their country name, or to simply remove their name if they do not wish to support a particular proposal/document.
7. The names of those administrations not responding to the Executive Secretariat before the Inter-American Proposals/Documents are forwarded to the ITU, will be removed.
8. At least five administrations must support a document in order for it to be forwarded to the ITU as an Inter- American Proposal/Document.
9. The Executive Secretariat will forward all approved Inter-American Proposals/Documents to ITU-R meetings in a timely fashion in accordance with the ITU rules of procedure.
10. Administrations not appearing on the Inter-American Proposal/ Document transmitted by the CITELE Executive Secretariat to the ITU will be able to notify the Executive Secretariat up until two weeks before the start of an ITU-R meeting of their support and their name will be forwarded to the ITU to be included in a corrigendum to the Inter-American Proposal/Document.

11. Moreover, any country may join in the support of an Inter-American proposal during the ITU-R meeting by submitting their acceptance.

12. Communications between Administrations shall take place through designated contact points identified to CITEL.

13. The authorization process to be used by an administration is a matter to be determined by the administration itself.

PCC.III/RES. 66 (X-98)³

AGENDA, VENUE AND DATE OF THE ELEVENTH MEETING OF PCC.III

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

RESOLVES:

1. To accept the kind invitation issued by the Republic of Peru to hold the Eleventh PCC.III meeting from September 14 to 18, 1998.
2. To approve the draft agenda for the XI PCC.III meeting, enclosed herewith.

DRAFT AGENDA

1. Approval of the Agenda and Calendar.
2. Appointment of the Drafting Group for the Final Report.
3. Restructuring the PCC.III working procedures.
4. Meeting and Report of Working Groups Chairpersons on the following topics:
 - 4.1 World Radiocommunication Conference.
 - 4.2 Satellite systems on the geostationary orbit.
 - 4.3 Networks and services that use very small aperture terminals (VSAT).
 - 4.4 Personal Communication Systems and Related Systems (wireless fixed access-FWA- and their coexistence with PCS).
 - 4.5 Local Multipoint Distribution /Communication Systems.
 - 4.6 Human Resources.
 - 4.7 Quantification of incompatibilities between FWA and PCS in the 1850-1990 MHz band.
 - 4.8 Regional database Report on the use of the spectrum.
 - 4.9 Implementation of mobile satellite services above 1 GHz.
5. Implementation of Global Maritime Distress and Safety System (GMDSS) including regional satellite mobile service systems in 1.5/1.6 GHz participating in these systems.
6. Report of the Steering Committee Meeting (August 1998).
7. Report on CITEL's preparation for the ITU Plenipotentiary Conference (PP-98) including common proposals.
8. Agenda, Venue and Date of the Twelfth Meeting of PCC.III.

³ Distributed as PCC.III/doc.1039/98

9. Other related matters.
10. Approval of the Final Report of the Eleventh Meeting.

PCC.III/RES. 67 (X-98)⁴

**SEMINAR ON THE GLOBAL POSITIONING SATELLITE SYSTEM AND
RADIONAVIGATION-SATELLITE SERVICE/AERONAUTICAL
RADIONAVIGATION USE OF THE FREQUENCY BAND 1559-1610 MHz**

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

That one RNSS system, the Global Positioning Satellite (GPS) system, is currently in operation in the 1559-1610 MHz frequency band on a worldwide basis and that it provides a global information utility supporting a wide range of essential civil, scientific and commercial functions, from air traffic control to Internet,

That the GPS system is also used for the provision of RNSS services on a space-to-space basis,

That CITEL members would benefit from understanding fully the operations and various applications of GPS technology, particularly as it supports safety-of-life applications,

That RNSS/ARNS allocations, both the existing allocations and the prospect of the addition of the space-to-space direction to the existing allocation, will be a topic of discussion at WRC-00 (see WRC-00 Agenda Item 1.9 and 1.15),

That the Permanent Consultative Committees of CITEL have undertaken efforts to schedule seminars on a regular basis on a wide variety of topics in the interest of information dissemination,

NOTING:

That WRC-97 Resolution 220 recognizes the essential need to protect RNSS and ARNS systems that operate in the 1559-1610 MHz band;

That the use of GPS is continually evolving and expanding, and that new uses are constantly being developed for terrestrial and space applications;

TAKING INTO ACCOUNT:

That the WRC-97 issued Resolution 220, which calls for the urgent study within the ITU-R of the technical criteria and operational and safety requirements to determine if sharing between the aeronautical radionavigation (ARNS) and radionavigation-satellite services (RNSS) operating, or planned to operate, in the band 1559-1610 MHz, and the mobile-satellite service in a portion of the 1559-1567 MHz frequency range, is feasible;

⁴ Distributed as document PCC.III/doc.959/98.

That the agenda for WRC-99 includes an item calling for the consideration of the addition of the space-to-space direction to the RNSS allocations in the bands 1215-1260 MHz and 1559-1610 MHz;

RESOLVES:

1. That a two-hour Seminar on the RNSS current and future system applications be held at the XI PCC.III meeting;
2. That the Seminar be held in accordance with resolution PCC.III/RES.44 (VI-96) entitled "Organization of PCC III Seminars";
3. That Mr. Raúl Rodríguez on behalf of the United States, shall act as the organizer of the Seminar; and
4. That CITEI Members and Associate Members interested in participating in the Seminar contact the organizers of the Seminar.

INSTRUCTS:

The Executive Secretary of CITEI to provide Administrative support in preparing for this Seminar.

PCC.III/RES. 68 (X-98)⁵

SEMINAR ON "COSTS INCURRED IN THE USE OF THE RADIOELECTRIC SPECTRUM IN THE AMERICAS BY THE VARIOUS RADIOCOMMUNICATION SERVICES"

The Tenth Meeting of the Permanent Consultative Commission III: Radiocommunications:

CONSIDERING:

The telecommunications are a considerable support for the socioeconomic development of our countries.

That the radioelectric spectrum is re-assessed daily since wireless technologies development encourage its use. This means that a number of administrations consider various attribution, assignment and licensing procedures with their counterpart in charging for radioelectric spectrum access.

That the Permanent Consultative Committees of CITEI have made efforts to plan periodical seminars on a variety of topics in order to disseminate information which, on this matter, is of particular current interest.

TAKING INTO ACCOUNT:

That it would be timely to hold a seminar on this topic at the next PCC.III meeting for the benefit of the interested administrations.

⁵ Distributed as PCC.III/doc.1008/98.

RESOLVES:

1. That a Seminar is held on “Costs incurred in the use of the radioelectric spectrum in the Americas by the various radiocommunication services”, at the XII of the meeting PCC.III.
2. That the Seminar is held according to the PCC.III/Res.44 (VI-96) Resolution entitled “Organization of PCC.III Seminars”.
3. That Mr. Horacio Fernández from Guatemala, Ms. Gina Dalma from Mexico and Mr. Héctor Budé from Uruguay act as joint organizers of the event.
4. That the members and associate members interested in participating are to contact the seminar organizers.

IV. RECOMMENDATIONS

PCC.III/REC. 37 (X-98)⁶

**RECOMMENDATION ON THE USE OF MOBILE SATELLITE
SYSTEMS OVER 1 GHz IN THE AMERICAS**

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

- a) Currently there are several mobile satellite systems planned to operate in frequency bands of over 1 GHz;
- b) In the countries in the Americas Region there are a large number of fixed stations in frequency bands over 1 GHz allocated to Mobile Satellite Service;
- c) Several countries are studying the possibility of granting licenses/concessions to different mobile satellite systems to operate in bands over 1 GHz.

MOREOVER CONSIDERING:

- a) The mobile satellite systems are a complement to the existing telecommunication networks.
- b) The use of this type of system will permit extending coverage of the telecommunication networks in the remote or isolated areas.

⁶ Distributed as PCC.III/doc. 1046/98.

RECOMMENDS:

1. That the CITELE member administrations consider the possibility of introducing the mobile satellite systems in bands over 1 GHz that are available, for complementing their telecommunication services in their countries in the remote or isolated areas.
2. That the CITELE member administrations provide for the XI PCC.III meeting at the latest the information referred to in the questionnaire on the use of the 2 GHz band in the Americas, which is part of this Recommendation, taking into consideration the terms of reference of the CITELE working group entrusted with the study of MSS above 1 GHz.

**QUESTIONNAIRE
USE OF THE 2 GHz BAND IN THE AMERICAS**

<p>1. Which channeling plan has your administration adopted..</p> <ul style="list-style-type: none"> • ITU -R F. 283 <input type="checkbox"/> • ITU-R F. 382 <input type="checkbox"/> • any of the foregoing modified (explain) 		
<p>2. Is your administration currently carrying out allocations of new fixed and mobile stations in the 2 GHz band</p>	<p>Yes <input type="checkbox"/></p>	<p>No <input type="checkbox"/></p>
<p>3. How many fixed and mobile stations coincide with the portion allocated to MSS in the 2 GHz band (1980-2010/2170-2200 MHz) in Region 2 ?</p> <ul style="list-style-type: none"> • Governmental • Private 		
<p>4. How many fixed stations coincide with the portion allocated to FPLMTS(1885-2025/2110-2200 MHz) ?</p> <ul style="list-style-type: none"> • Governmental • Private 		
<p>5. Has your administration studied or is it studying the possibility of granting licenses for Satellite Mobile Services ?</p>	<p>Yes <input type="checkbox"/></p>	<p>No <input type="checkbox"/></p>
<ul style="list-style-type: none"> • Which ? • In which period ? 		
<p>6. Has your administration submitted the notification for fixed and mobile stations at the Radiocommunications Bureau corresponding to the 2 GHz band ?</p>		
<ul style="list-style-type: none"> • When ? 	<p>Yes <input type="checkbox"/></p>	<p>No <input type="checkbox"/></p>

7. Which Annex to recommendation ITU-R F. 1098 fits your present frequency plan in the 2 GHz band ? See charts 1,2 and 3

- Annex 1
- Annex 2
- Annex 3: a) b)

PCC.III/REC. 38 (X-98)⁷

REGULATORY ADJUSTMENT FOR INCREASING TELEDENSITY

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

- a) Cellular systems are operating in the 800 MHz band throughout the region.
- b) PCS systems are being introduced in some countries in the region.
- c) Terminal equipment exists designed to offer fixed telephony services in cellular networks.
- d) Both cellular and PCS systems can offer a fixed service.

RECOGNIZING:

The need to increase teledensity in most of the countries in the region.

TAKING INTO ACCOUNT:

That there has been heavy investment in the cellular system infrastructure and that these systems have a wide coverage in the region.

RECOMMENDS:

To urge the member state administrations to study the possibility of evaluating, with basis on their policies, regulations, economy and communication requirements, the convenience of allowing the possibility of cellular and PCS to also offer fixed services.

⁷ Distributed as PCC.III/doc. 1011/98 rev.1.

PCC.III/REC. 39 (X-98)⁸

**IDENTIFICATION OF SPECTRUM IN THE BANDS OF 440-450 AND 485-495 MHZ
FOR FIXED WIRELESS ACCESS (FWA)⁹ IN THE AMERICAS**

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications,

CONSIDERING THAT:

- a) there is an urgency in the Americas towards fulfilling fundamental POTS Universal Services Objectives (USO¹⁰), and the urgent need for socio-economic progress, especially in developing countries;
- b) many communities are particularly under-served as compared to urban centers across the Americas;
- c) wireless technologies represent an opportunity for a major improvement in communications given cost figures relatively independent of distance and subscriber density;
- d) Fixed Wireless Access (FWA) is an important application with significant advantages in many cases over wireline access such as: quick deployment and service independent of the geographical conditions which means a cost-effective alternative to the wireline access;
- e) to facilitate the deployment of FWA systems, it is desirable that suitable radio frequency bands be identified for this application, in line with the CITEL Recommendation CCP-III/REC.26/96 (VI-96) "Identification of Spectrum for Fixed Wireless Access Systems in the Americas";
- f) various technologies for FWA are being introduced in certain countries in the Region in the frequency range of the 450 MHz bands, specifically 440-450 paired with 485-495 MHz;
- g) in Mexico the 440-450 and 485-495 MHz bands have been officially considered for fixed or mobile wireless access and these bands were included in the radio electric spectrum auction program published in the Official Gazette on January 28, 1997;
- h) the 440-450 MHz band is not available for FWA use in the USA, as the band is used by high-powered radars in that country;
- i) Resolution 217 (WRC'97) on implementation of wind profiler radars urges administrations to implement wind profiler radars in a number of bands, which include the 440-450 MHz band;
- j) in Peru, the 440-450 and 485-495 MHz bands have been allocated for FWA use;
- k) in some countries in the region these bands are not available for FWA use because of other uses of these bands;

RECOMMENDS THAT:

⁸ Distributed as PCC.III/doc. 1044/98.

⁹ FWA=Fixed Wireless Access

¹⁰ USO=Universal Services Objectives

1. in the Americas, where available for the fixed service, the radio frequencies in these bands be identified for implementation of FWA systems according to a frequency block plan of 440-450 MHz for base station receive and 485-495 MHz for base station transmit;
2. in those cases where mobile (trunking) and broadcasting systems using parts of these bands already exist, and due to the urgency of Universal Services Objectives for socio-economic progress, genuine efforts be permitted for limited utilization of these bands for FWA systems in areas where mobile and/or broadcasting systems utilization is essentially marginal or non-existent;
3. where mobile and broadcasting systems are in use in the 485-495 MHz band, the implementation of FWA must be coordinated;
4. in those countries where the bands are available for fixed services, the bands should include FWA applications to promote Universal Services Objectives;
5. administrations consider implementation of FWA in the 440-450 MHz band with the understanding that in some countries there may be cases where FWA services may need to take technical and operational measures to coexist with radar usage in this band.

PCC.III/REC. 40 (X-98)¹¹

TIMELY IMPLEMENTATION OF ITU GMPCS ARRANGEMENTS

The Tenth Permanent Consultative Committee III: Radiocommunications,

CONSIDERING:

- a) the conclusion of the first World Telecommunication Policy Forum (1996) on Global Mobile Personal Communications by Satellite (GMPCS) and the related Memorandum of Understanding;
- b) that Implementation Arrangements have been developed since the Forum which are intended to facilitate type approval and the circulation of GMPCS terminals across national borders;
- c) the Recommendation recently adopted by the World Telecommunication Development Conference (WTDC-98) concerning "The Timely Implementation of GMPCS";
- d) the Resolution concerning "Role of the ITU Secretary -General in the Implementation of he GMPCS-MOU Arrangements" which was adopted by the ITU Council at its meeting in May 1998;
- e) that the ITU Secretary-General is currently carrying out his role as the Depository of these Arrangements and in this role will invite Administrations to participate in the Arrangements;
- f) that the Administrations of CITELE will benefit from the early implementation of GMPCS services in all countries;

RECOMMENDS:

¹¹ Based in PCC.III/doc. 986/98.

That CITELE Administrations implement the GMPCS Arrangement, and, where necessary adopt national licensing procedures or regulations, to introduce GMPCS services and associated terminals as early as possible.

Document 986 has attached the following appendixes that are not published here and that may be obtained through the ITU:

Document 14-E, 7 October 1997, ARRANGEMENTS PURSUANT TO THE GMPCS MoU TO FACILITATE THE INTRODUCTION AND DEVELOPMENT OF GLOBAL MOBILE PERSONAL COMMUNICATIONS BY SATELLITE (GMPCS).

Document 15-E, 7 October 1997, TERMS OF REFERENCE FOR THE TASK FORCE ON THE IMPLEMENTATION OF THE GMPCS ARRANGEMENTS.

Document 2-E, 12-13 March 1998, IMPLEMENTATION OF THE GMPCS-MoU ARRANGEMENTS

V. DECISIONS

PCC.III/DEC. 27 (X-98)¹²

IDENTIFICATION OF PRESENT AND PLANNED USAGE OF THE 746-806 MHZ BAND

The Tenth Meeting of the Permanent Consultative Committee III: Radiocommunications decided that:

1. That CITEL Member States examine their present and planned use of the 746-806 MHz band and provide such information at the next PCC III meeting; and.
2. That this information on the present and planned usage of the 746-806 MHz band be subsequently shared with PCC II for its consideration and comment.

V. LIST OF THE BASIC DOCUMENTS RESULTING FROM THE TENTH MEETING OF PCC.III: RADIOCOMMUNICATIONS

Report of the Meeting	PCC.III-1054/98 rev. 1
Summary Minutes of the Opening Session and First Plenary Meeting	PCC.III-1021/98 rev. 1
Summary Minutes of the Second Plenary Meeting	PCC.III-1033/98 rev. 1
Summary Minutes of the Third Plenary Meeting	PCC.III-1034/98 rev. 1
Summary Minutes of the Fourth Plenary Meeting	PCC.III-1052/98 rev. 1
Summary Minutes of the Fifth Plenary Meeting	PCC.III-1053/98 rev. 1
List of Documents	PCC.III-937/98 rev.3
List of Participants	PCC.III-940/98 rev.2

¹² Distributed as PCC.III/doc.951/98 rev.1.