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INTERNATIONAL TELECOMMUNICATION UNION

REPORT
ON THE ACTIVITIES OF
THE INTERNATIONAL
TELECOMMUNICATION UNION
IN
1990

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1. INTRODUCTION

This Report is published pursuant to the provisions of No. 306 of the International Telecommunication Convention (Nairobi, 1982) which provides that the Secretary-General shall "... with the assistance of the Coordination Committee, prepare an annual report on the activities of the Union which, after approval by the Administrative Council, shall be sent to all Members."

2. MEMBERSHIP OF THE UNION

2.1 There were no new admissions in 1990. The number of Members of the Union decreased from 166 to 164, during the year, for the following reasons:

- merging of the Yemen Arab Republic and the People's Democratic Republic of Yemen;
- accession of the German Democratic Republic to the Federal Republic of Germany.

2.2 In the course of 1990, 1 Member ratified the Nairobi Convention, thus bringing to 158 the total number of ratifications or accessions as at 31 December 1990.

2.3 On 31 December 1990, 1 Member had ratified the Constitution and Convention of the ITU, Nice, 1989. Resolution No.1006 of the Administrative Council, urging Members to expedite their national ratification, acceptance, approval or accession procedures was brought to the attention of all the Members of the Union.

2.4 Table 1, in Annex 1 to the present Report, shows the situation of Members with respect to the Nairobi Convention and the Administrative Regulations which complement it, as at 31 December 1990. It also includes the situation with respect to the Constitution and Convention of Nice, 1989. Annex 1 also gives information relating to certain other conventions and agreements relating to telecommunications.

3. ADMINISTRATIVE COUNCIL

3.1 The 45th ordinary session of the Administrative Council was held at ITU Headquarters from 11 to 22 June 1990.

This session was attended by representatives of the 43 Members of the Council, namely:

Algeria (People's Democratic Republic of), Germany (Federal Republic of), Saudi Arabia (Kingdom of), Argentine Republic, Australia, Benin (Republic of), Brazil (Federative Republic of), Bulgaria (People's Republic of), Burkina Faso, Cameroon (Republic of), Canada, Cape Verde (Republic of), China (People's Republic of), Colombia (Republic of), Korea (Republic of), Cuba, Egypt (Arab Republic of), Spain, United States of America, France, Greece, India (Republic of), Indonesia (Republic of), Italy, Jamaica, Japan, Kenya (Republic of), Kuwait (State of), Malaysia, Mali (Republic of), Morocco (Kingdom of), Mexico, Nigeria (Federal Republic of), Pakistan (Islamic Republic of), Philippines (Republic of the), German Democratic Republic, Senegal (Republic of), Sweden, Switzerland (Confederation of), Tanzania (United Republic of), Czech and Slovak Federal Republic, Thailand, Union of Soviet Socialist Republics.

3.2 Mr. A.Ph. Djihatampu (Indonesia), elected at Nice during the inaugural meeting of the 45th session, acted as Chairman. In the absence of Mr. J. Jira, the Council elected Dr. I. Laska (Czech and Slovak Federal Republic) as Vice-Chairman, and the following Committees and Working Groups were set up:

Committee 1 - Finance

Chairman: Mr. P. Gagné (Canada)
Vice-Chairman: Mr. J. Martin-Löf (Sweden)

Committee 2 - Staff and Pensions

Chairman: Dr. K.D. Meier (German Democratic Republic)
Vice-Chairman: Mr. J-C. Deniaud (France)

Committee 3 - Technical Cooperation

Chairman: Mr. H. Vignon (Benin)
Vice-Chairman: Mr. M.A. Yusoff (Malaysia)

Working Group PL/A - Matters relating to Conferences

Chairman: Mr. J.J. Hernández (Mexico)
Vice-Chairman: Mr. M.J. Shingirah (Kenya)

3.3 The Resolutions and Decisions adopted by the Council are summarized below:

3.3.1 Financial matters

3.3.1.1 Financial Operating Report of the ITU for 1989

The Council approved the Financial Operating Report and the Management Report of the ITU Staff Superannuation and Benevolent Funds for 1989.

(Resolution No. 992)

3.3.1.2 Contributory shares in Union expenditure

The Council resolved that the following countries should be entitled to contribute to Union expenditure in the 1/8 or 1/16 unit class:

- | | | |
|---|--------------------------------|-------------|
| - | Antigua and Barbuda | (1/16 unit) |
| - | St. Vincent and the Grenadines | (1/16 unit) |
| - | Seychelles (Republic of) | (1/16 unit) |
| - | Swaziland (Kingdom of) | (1/8 unit) |
| - | Tonga (Kingdom of) | (1/16 unit) |

(Resolution No. 993)

3.3.1.3 External audit of ITU accounts for the period 1 January to 31 December 1989

The Council approved the accounts of the ITU for the period 1 January to 31 December 1989 as drawn up and audited by the External Auditor appointed by the Swiss Confederation.

(Resolution No. 994)

3.3.1.4 Budget of the International Telecommunication Union for 1991

The Council, having regard to the provisions of the Decision No. 1. (PLEN/1) adopted by the Plenipotentiary Conference, Nice, 1989, which sets out the conditions governing the establishment of the annual Union budgets for 1991, approved the budgets for 1991, namely:

- the Union budget amounting to 120,794,000 Swiss francs and a payment into the reserve account of 3,000,000 Swiss francs, i.e. a total of 123,794,000 Swiss francs;
- the Technical Cooperation special accounts budget amounting to 6,293,000 Swiss francs;
- the supplementary publications budget amounting to 9,360,000 Swiss francs.

The contributory unit for 1991 was set at:

- for Members : 291,800 Swiss francs;
- for recognized private operating agencies etc. : 58,360 Swiss francs.

(Resolution No. 1000)

3.3.1.5 Revision of the Financial Regulations of the Union

The Council approved the amendments to the Financial Regulations of the Union proposed in Document 6963/CA45 as amended by the Administrative Council at the 4th meeting of the Finance Committee.

(Resolution No. 1001)

3.3.1.6 Special Interest Account

The Council resolved that the special interest account set up pursuant to the decisions of the Plenipotentiary Conference (Nice, 1989) shall be offset by means of a withdrawal from the special reserve from debtors' accounts (Article 43bis of the Union's Financial Regulations).

(Resolution No. 1002)

3.3.1.7 Special provision for debtor's accounts

The Council resolved:

1. as from 1 January 1986 and until otherwise decided, no longer to regard the annual contribution and contributions to regional conferences posted to the accounts of :

- Cambodia (1/2 unit)
- the Dominican Republic (1/2 unit)

as income in the Union's budget, but to credit these amounts to a special account.

2. as from 1 January 1988 and until otherwise decided, no longer to regard the annual contribution and contributions to regional conferences posted to the accounts of :

- Sierra Leone (1/8 unit)

as income in the Union's budget, but to credit these amounts to a special account.

3. as from 1 January 1991, the contributions of :

- the Islamic Federal Republic of the Comoros (1/16 unit)
- the Republic of the Sudan (1/16 unit)

will be considered again as income in the Union's budget.

(Resolution No. 1003)

3.3.1.8 Contributory shares of the Argentine Republic towards defraying the expenses of the Union and related matters

The Council resolved that, from 1 January 1991 onwards, the Argentine Republic is authorized to contribute towards defraying the expenses of the Union in the 1/4 unit class, so that, from the same date onwards and until the next competent Plenipotentiary Conference, the Argentine Republic can pay to the Union each year an amount equal to 3/4 of one unit class, in order to amortize progressively its debts.

The Council resolved further provisionally that subject to the agreement of a majority of the Members of the Union and until definitive settlement of the matter by the next competent Plenipotentiary Conference:

1. the Argentine Republic's right to vote shall exceptionally be restored, in derogation of the provisions in No. 117 of the International Telecommunication Convention, Nairobi, 1982;
2. from 1 January 1991 onwards, the application of the provisions in No. 614 of the said Convention to arrears of the contribution of the Argentine Republic shall be suspended.

The Members of the Union were consulted with respect to these matters in letter DM-1082 of 12 July 1990 and the Council's proposals were approved by the required majority.

(Resolution No. 1007)

3.3.1.9 Reserve Account of the Union

The Council decided:

1. to withdraw from the Reserve Account of the Union a sum of 2,350,000 Swiss francs, representing a portion of the surplus income on the ordinary account in 1989 which was paid into the Reserve Account at the end of 1989;
2. that the sum of 2,350,000 Swiss francs is to be used for the partial absorption of the shortfall in income to cover support costs in the Technical Cooperation special accounts.

(Decision No. 428)

3.3.1.10 Store, Reprography and Technical Services Capital Account

The Council decided to withdraw a sum of 1,000,000 Swiss francs from the Store, Reprography and Technical Services Capital Account and to use those funds for the partial absorption of the shortfall in income to cover support costs in the Technical Cooperation special accounts.

(Decision No. 429)

3.3.1.11 Publications Capital Account

The Council decided to withdraw a sum of 1,000,000 Swiss francs from the Publications Capital Account and to use those funds for the partial absorption of the shortfall in income to cover support costs in the Technical Cooperation special accounts.

(Decision No. 430)

3.3.1.12 Operational Fund at the disposal of the Administrative Council

The Council decided to withdraw a sum of 7,000 Swiss francs from the Operational Fund at the disposal of the Administrative Council and to use those funds for the partial absorption of the shortfall in income to cover support costs in the Technical Cooperation special accounts.

(Decision No. 431)

3.3.1.13 Amount owed by IBC Corp., Hauppauge (USA)

The Council decided that the amount of 119,894.05 Swiss francs owed by IBC Corp. as unpaid contributions and accrued interest for 1982-1987 shall be written off and offset by a withdrawal from the ITU Reserve Account.

(Decision No. 432)

3.3.1.14 Amount owed by GTE ATEA S.A., Herentals (Belgium)

The Council decided that the amount of 9,611.55 Swiss francs owed by GTE ATEA S.A. as accrued interest on overdue contributions for 1982 and 1983 shall be written off and offset by a withdrawal from the ITU Reserve Account.

(Decision No. 433)

3.3.2 Staff matters, pensions

3.3.2.1 Membership of the ITU Staff Pension Committee

The Council appointed the following persons to represent the Administrative Council on the ITU Staff Pension Committee:

Members	Alternate Members	Term of Office
Mr. S.S. AL-BASHEER	Mrs S. SUAREZ DE GAMBOA	Until the 46th ordinary session of the Council
Mr. A. MAETZOLD	Mr. R. MBAYE	Until the 47th ordinary session of the Council
Mr. G. DUPUIS	Mr. B. SULISTYO	Until the 48th ordinary session of the Council

(Resolution No. 996)

3.3.2.2 United Nations Joint Staff Pension Fund (UNJSPF) Pension Scheme - Study of measures to be taken for the adjustment of pensions

The Council, having noted the persistent concerns of the Union's Staff on account of the prevailing climate of insecurity and instability regarding pension levels in the Common System, despite the many interventions by all the ITU organs since 1972, reiterated its request to the competent bodies in the Common System that a lasting and equitable solution should be found as soon as possible on the question of income replacement, with benefits everywhere comparable to those prevailing at the base of the system (New York) and that to this end the ITU proposal of a Pension Purchasing Power Protection Insurance (PPPPPI) should be given due consideration and instructed the Secretary-General to bring this Resolution to the attention of the 40th session of the UNJSPB and of the 45th session of the United Nations General Assembly.

(Resolution No. 997)

3.3.2.3 Salaries, post adjustment rates and staff assessment rates of elected officials

The Council approved the salaries and rates with effect from 1 July 1990 and amended the Staff Regulations and Rules for elected officials.

(Resolution No. 998)

3.3.2.4 Consolidation of decisions on Staff requirements

The Council approved:

I. General Secretariat

the creation of the following permanent posts:

3 G4 and 4 G3, revisers and typists in the Typing Pool
2 G3 audio-typists in the language division
2 G4 text capture operators in the Publication Composition Service
1 G2, 1 G3 and 2 G4 offset operators, assemblers and dispatch clerks
in the reprography service
1 G3 telephonist
1 G5 technician
2 P4 translators
1 P4 reference administrator

the abolition of the following posts:

FI6/G5/294
S28/G3/750
S31/G1/186
S32/G2/192
S62/P3/55
E7/P2/223
E7/G5/757

- Support to Frequency Management System

the transformation of the following fixed-term posts into permanent posts:

OR5/P4*/869
OR5/P3*/773

the continuation of the following fixed term post until 31.12.1995:

OR1/P5*/796

- Preparatory work for WARC HFBC, 1993

the continuation of the following fixed-term post until 30.06.1993:

OR8F/P3*/870

- Remote access to IFRB databases

the regrading to P3 and G6, respectively, of the two following posts:

OR5/G3/774
OR3/G4/338

II. Telecommunications Development Bureau

the creation of the following fixed-term posts until 31.12.1993¹:

- 1 D1 : Chief, Policies, Strategies and Programming
- 1 D1 : Chief, Programme Support, Organization and Methods
- 1 G6 : Assistant to the ITU Representative (Caribbean)
- 1 G6 : Assistant to the ITU Representative (South Pacific)
- 1 G6 : Assistant to the two ITU Officials for the Arab States
- 8 P5 : Area Officers for Network Management, Operation and Maintenance
- 2 P5 : ITU Representatives (Caribbean and South Pacific)
- 1 P5 : ITU Regional Officer in Human Resources Management and Development (Arab States)
- 1 P5 : Specialist in Computer Applications for Telecommunications, Planning and Management (Headquarters)
- 1 G4 : Secretary (Headquarters)

the continuation of the following fixed-term posts including the ex-Senior Regional Representative posts transferred to the BDT until 31.12.1993¹:

¹ to be filled only until 30.06.1993

- Training
 - CL1C/P5*/777
 - CL1C/G5*/837
 - CL2C/P5F/778
 - CL2C/P5F/779
 - CL2C/P5F/780
 - CL2C/P5F/781
- Group of Engineers
 - C2C/P5*/344
 - C2C/P5*/345
 - C2C/P5*/346
 - C2C/P5*/775
 - C2C/P5*/776
 - C2C/P5*/851
- Logistic support for Voluntary Programme
 - VOC/P5*/782
 - VOC/P5*/852
- Evaluation function
 - EPC/P5*/868
- Regional Presence
 - R1C/D1F/785)
 - R1C/D1F/786)
 - R1C/D1F/787) Three of the D1 and their respective
 - R1C/D1F/788) G posts will be filled progressively from
 - R1C/G6F/789) mid-1991 onwards.
 - R1C/G6F/790)
 - R1C/G6F/791)
 - R1C/G6F/792)

III. IFRB

- Frequency Management System
 - transformation of the following fixed-term posts into permanent posts:
 - FR1/P5*/795
 - FR5/P5*/807
 - FR4/P4*/799
 - FR4/P4*/855
 - FR4/P4*/797
 - FR4/P4*/798
 - FR4/P4*/809

the continuation of the following fixed term posts until 31.12.1995:

FR4/P4*/810
FR4/P4*/811
FR5/G6*/802
FR4/G5*/803

- Preparatory work for WARC-HFBC, 1993

the continuation of the following fixed term posts until 30.06.1993:

FE5F/P5*/814
FE5F/P4*/844
FE5F/P4*/845
FE5F/P4*/846

- Remote access to IFRB databases

the regrading to P4 of the two following posts:

FR3/G4/470
FR3/G4/474

the abolition of the following posts:

FR4/P5*/794
FR3/P4/479
FR3/P3/817
FR3/P3/480

IV. CCIR

the abolition of the following post:

IR4/P5/556

V. CCITT

the abolition of the following post:

TT1/P4/279

(Resolution No. 999)

3.3.3 Conferences and meetings

3.3.3.1 World Administrative Radio Conference for Dealing with Frequency Allocations in Certain Parts of the Spectrum (WARC-92)

The Council agreed that this Conference should be convened in Spain from 3 February 1992 for a period of four weeks and two days. The Council also agreed on the Conference agenda. The Members of the Union were consulted with respect to the agenda, date and place of the Conference in Circular telegram A87 of 21 June 1990 and the Council's proposals were approved by the required majority.

(Resolution No. 995)

3.3.3.2 Revision of the Rules of Procedure of the Administrative Council

The Council, taking into account the decisions taken by the Plenipotentiary Conference (Nice, 1989), particularly in Resolution No. 3 (PLEN/7), resolved to amend the "Rules of Procedure of the Administrative Council (1983 Revision)".

(Resolution No. 1005)

3.3.3.3 Date and duration of the 46th session of the Administrative Council

The Council decided that its 46th session will open in Geneva for a period of two weeks from Monday 27 May 1991 to Friday 7 June 1991.

(Decision No. 434)

3.3.4 Privileges, Immunities and Facilities related to activities of the Union

The Council resolved to urge all the Members of the Union not having done so yet to accede to the Convention on the Privileges and Immunities of the Specialized Agencies of 21 November 1947 in respect of the International Telecommunication Union and to urge all those Members, which have acceded thereto, but not in respect of the Union, to do so by communicating a "subsequent written notification to the Secretary-General of the United Nations", in which they "undertake to apply the provisions of this Convention to" the International Telecommunication Union; to call upon hereby any Member of the Union, which has not yet acceded to the said Convention, or communicated the subsequent written notification in respect of the Union, to ensure that the competent governmental authority formally declares that the provisions of the Convention on the Privileges and Immunities of the Specialized Agency shall apply to those activities of the Union, which are to be carried out in its territory, or otherwise accord equivalent privileges and immunities.

(Resolution No. 1004)

3.3.5 Deposit of Instruments required for the entry into force of the Nice Constitution and Convention

The Council resolved to urge all the Members of the Union to expedite their respective national ratification, acceptance, approval or accession procedures with regard to the Constitution and Convention of the International Telecommunication Union (Nice, 1989) and to deposit their respective "one single instrument" with the Secretary-General at the earliest possible date.

(Resolution No. 1006)

3.3.6 Committee to ascertain the facts concerning Israel's violations of the International Telecommunication Convention

The Council, pursuant to Resolution No. 64 (PLEN/2) of the Plenipotentiary Conference (Nice, 1989), instructed the Secretary-General to constitute a fact-finding Committee of at least five administrations from different regions and invited the Committee to submit its report to the 46th session of the Administrative Council.

(Resolution No. 1008)

3.3.7 Establishment of a Voluntary Group of Experts to study allocation and improved use of the radio-frequency spectrum and simplification of the Radio Regulations

The Council resolved to establish a Voluntary Group of Experts with the following terms of reference:

- to review, in the light of technical developments, the definitions in Article 1 of the Radio Regulations and the structure and definitions of the relative status of allocations in Article 8 of the Radio Regulations with a view to improving the utilization and economic use of the radio frequency spectrum, to increasing the flexibility in order to give more sharing possibilities, and to considering alternatives in the manner in which spectrum is allocated;
- to review the regulatory provisions and procedures of the Radio Regulations with a view to developing recommendations to simplify the Radio Regulations in general.

(Resolution No. 1009)

3.3.8 Conclusion, on a provisional basis, of the Standard Basic Executing Agency Agreement (SBEAA) between the UNDP and the ITU

The Council decided:

1. to approve the conclusion, on a provisional basis, of the Standard Basic Executing Agency Agreement (SBEAA) between the UNDP and the ITU, which shall enter into force in accordance with the provisions of Article XVII of the SBEAA;
2. to authorize the Secretary-General to sign the above SBEAA, on behalf of the Union; and
3. to instruct the Secretary-General to submit to the Plenipotentiary Conference of the Union scheduled for 1994 the above SBEAA for examination and taking such measures in connection therewith as it deems appropriate.

(Decision No. 427)

3.4 Resolutions amended by the Council

The following Resolutions were amended by the Council:

- a) Resolution No. 925 - Financial conditions for the participation of the United Nations, the specialized agencies and other international organizations in the conferences and meetings of the ITU

The amendment concerns the addition under Section 4.1 (Regional telecommunication organizations) of the European Telecommunications Standards Institute (ETSI).

b) Resolution No. 929 - Centre for Telecommunications Development

The amendment concerns the change in composition of the members of the third Advisory Board.

3.5 Decisions amended by the Council

3.5.1 Travel expenses of members of the Administrative Council

The Council decided that as from the 46th session the air travel expenses of councillors will be reimbursed at the economy class rate. However when other arrangements are applicable to ITU appointed staff, they shall also apply to councillors.

(Decision No. 375)

3.5.2 Staff representation

The Council decided that the Chairman and the Secretary of the Staff Council may be released from their assigned duties for a reasonable portion of their working hours up to a maximum of 50% and 30%, respectively.

(Decision No. 399)

3.6 Other main issues considered by the Council which were not the subject of Resolutions and Decisions

- Participation of organizations of an international nature in the activities of the Union
 - Development of direct remote access to ITU information systems
 - Structure and functioning of the Telecommunications Development Bureau (BDT)
 - Review of the structure and functioning of the Union - Progress report of the HLC
 - ITU Regional Presence
 - African Telecommunication Development Conference
 - Limitations in the use of working languages of the Union
 - Premises at the Seat of the Union
 - Report on the Activities of the Centre for Telecommunications Development
-

4. ACTIVITIES OF THE PERMANENT ORGANS

4.1 Activities of the General Secretariat

The General Secretariat comprises five departments - Personnel, Finance, Conference and Common Services, Computer and External Relations - together with a Communications Service as well as the TELECOM Secretariat.

4.1.1 Personnel Department

The total number of posts in the Manning Table as of 31 December 1990 was 798 of which 735 posts were filled by officials holding permanent (81.4%) or fixed term contracts (17.4%). In view of the financial situation and of the global budget cuts resulting from the decisions taken at the Nice Plenipotentiary Conference a number of posts were not filled during the year; on 31 December 1990, 63 established posts were vacant.

Short-term employment decreased in 1990 and amounted to 41,415 person/days. This decrease, as compared with 1989, is to be explained by the fact that 1989 was an exceptionally heavy year in view of the Plenipotentiary Conference.

Apart from the regular activities of the Department relating to the recruitment and the administration of staff which has shown no overall substantial decrease in volume, the Personnel Department has been deeply involved in the work of Booz Allen & Hamilton Inc., consultants hired on behalf of the High Level Committee, for the part of its work dealing with the personnel management of the ITU General Secretariat.

In the field of job classification, major activities relate to the creation of the Telecommunications Development Bureau (BDT) and the reorganization of the International Frequency Registration Board (IFRB) secretariat which involved the review and/or the modification of many job descriptions. This process is not yet complete. Furthermore, the Department was also closely involved in the design of a Common Classification Standard for the General Service category applicable to all Geneva-based organizations as requested by the ICSC. The recruitment in mid 1990 of a full-time classifier has permitted to embark on the gradual reduction of the backlog of work in this field.

Numerous modifications in the conditions of employment of the UN Common System introduced on 1 July 1990 called for extensive amendments to the Staff Regulations and Staff Rules.

In the field of Pensions, the Department was also called upon to participate actively in the attempts to find a long-term solution to the crucial problem of pension adjustment.

4.1.2 Finance Department

The activities of the Finance Department were affected by the increasing workload and demands to submit financial information on the different activities of the Union, as well as by the fact that a number of posts remained unfilled during 1990 as a result of the global cut in staff expenditures. Nevertheless, the regular duties of the Finance Department, as stipulated in the Financial Regulations of the Union, were carried out in a timely manner.

Members of the staff of the Department were considerably involved in the work of the outside consultants (Booz, Allen & Hamilton) who were invited, during the second half of the year, by the High Level Committee to review the financial management of the Union. That period was also influenced by the preparatory work for Africa Telecom 90, as well as the African Telecommunication Development Conference which was held in December 1990. During the year the staff of the Department participated in the work related to information exchange policies and practices, as well as in the work concerning the future of the Telecommunication Journal. The Department was also actively involved with the CCAQ and its working groups, particularly in relation to the support cost income from UNDP.

The modernization of the financial and accounting systems was continued. The Union's Short-Term Salary Payroll system was fully implemented during 1990. Facilities permitting on-line consultation of the Union's bank accounts and making direct payments were installed in order to improve cash management. The sales system was further developed, to include additional statistical and reporting capabilities. The integration of Personal Computer (PC) applications into the accounting system was improved. In cooperation with the Computer Department, the priorities for making full use of the existing systems were redefined. The role of the electronic data processing support team was confirmed.

4.1.3 Department of Conferences and Common Services

In 1990, the Department provided support services and facilities for the following meetings:

CCITT meetings (259 days of meetings in Geneva, and
71 days of meetings outside Geneva (330 days))

CCIR Plenary Assembly (10 days) and
174 days of other meetings

Administrative Council - CA45 (10 days)

IFRB Seminar (5 days)

High Level Committee meetings (23 days)

Advisory Board of the Centre for Telecommunications Development
(4 days)

Various meetings relating to Technical Cooperation (37 days)

Of a total of 593 working days, 56% were for the CCITT, 31% for the CCIR and 13% for other meetings, including the Administrative Council.

The attached chart (after item 4.1.3.3) gives the Common Services support provided to ITU activities for the period 1980-1990, with details for the CCIR and the CCITT.

4.1.3.1 Languages Division

In 1990, the Languages Division translated 50,638 pages into the working languages (compared with 65,248 in 1989), broken down as follows: 24,586 (48.5%) were translated into French, 5,840 (11.5%) into English and 20,212 (40%) into Spanish. Of this total, 7,887 pages were contracted outside.

The Arabic, Chinese and Russian Services, in accordance with Resolution No. 59 (Nice 1989), translated and typed 45 trilingual issues in Arabic, Chinese and Russian of the Special Section on Space Services of the IFRB Weekly Circular, comprising 5,683 final pages (compared with 4,401 in 1989). These Services also handled the translation and revision of some of the CCI Volumes, as well as the Final Acts of the Plenipotentiary Conference (Nice, 1989) and the AFBC(2). 7,531 pages were printed in Chinese, and 2,107 pages in Russian, most of which were contracted out to Beijing and Moscow, respectively. 4,507 pages were printed in Arabic. A data capture system has been in use for some time in the Russian Service and, in 1990, a word processing system (hardware and software) was installed in the Arabic Service. The possibility of acquiring from Beijing software and hardware for Chinese was also explored.

It was estimated that the Reference Service was able to save the translation sections an amount of time equivalent to 3,726 pages (497 work-days). The Languages Division also provided ad hoc interpretation, précis-writing and detached some staff on mission for 527 work-days, representing 3,956 pages.

The Terminology and References Section completed the design, development and installation of a new improved version of TERMITE (45,000 entries), which is the consultation tool of the terminological base incorporated in TIES. The Section organized demonstrations of the use of TERMITE to the translators having access to a PC and also to some interpreters. The Section also started updating the data base. Other activities included analysing the Languages Division's needs for computer-aided registration of documents, an Arabic word-processing system, terminology and computer-aided translation.

4.1.3.2 Documents and Publications Production Division

The Document Composition Service (Pool) produced 90,824 pages in 1990 (121,941 pages in 1989). Of the total production, 8,656 pages (9.5%) were placed outside; 509 hours of overtime were required to service conference needs. The CCIR and the CCITT absorbed 74.5% of the total production. Also, 1,029 pages of documents were produced by the Publications Composition Service, making a total of 91,853 pages of documents produced by the two Services.

The Publication Composition Service also produced the originals for printing the publications given in Annex 3, except those based on computer listings. In 1990, a total of 53,591 pages of publications were produced and 322 orders were executed, mainly for the last fascicles of the CCITT Blue Book, the CCITT Directives, the Radio Regulations (1990 Edition) and the CCIR XVIIth Plenary Assembly volumes. The Service started to replace the Zentec text treatment system by the new software "WORD FOR WINDOWS" on PC-AT terminals, using the WINDOWS-3 package. The reorganization of the Service and the training of staff were started in 1990 and will be completed in 1991.

The Outside Production of Publications Service handled 579 publications (in French, English, Spanish, Arabic, Chinese and Russian) (representing 92,948 pages) and 684 microfiches (containing 184,680 pages), totalling 277,628 pages in 766,030 copies. The costs incurred with outside printers amounted to 5,173,795 Swiss francs.

Reprography, Distribution and Dispatch Service

The Reprography Section processed 83,463,193 A4 format pages in Geneva. In addition, 948,528 pages were produced in Düsseldorf for the XVIIth Plenary Assembly of the CCIR and 1,654,325 pages were placed with outside printers. In comparison with 1989, the total production of 86,066,041 pages increased by 5.5%. 1,014 hours of overtime were worked in order to meet delivery dates; a reduction made possible by introducing evening shifts periodically.

The Conference Documents Section handled 5,671,565 documents (a decrease of 13.8% in comparison with 1989), of which 2,320,585 were dispatched (46.2% more than in 1989) and 2,896,710 distributed. The remaining 454,270 documents were placed in stock. The offices responsible for printing addresses ran off 523,411 labels from the lists deposited.

The Dispatch and Transport Section sent out 161,110 kilos of publications and other material (value: 6,760,987 Swiss francs) by freight at a cost of 365,365 Swiss francs. It dispatched from ITU Headquarters miscellaneous printed matter (301,590 items) at a cost of 1,229,062 Swiss francs and 156,466 packets of conference documents at a cost of 824,778 Swiss francs. There were 16,033 registered items (an increase of 20.8% in comparison with 1989).

The use of surface mail increased in 1990 to 56% of the total traffic whereas in 1988 it was only 44% thereof. Following the adoption that year by the Administrative Council of Decision No. 420 for a trial period of two years, the number of CCI documents dispatched by surface mail increased by 77% in 1989 and again by 70% in 1990. In addition, less storage space and handling were required. The experiment has been a success and should be continued on a permanent basis.

4.1.3.3 Resources and Conference Planning, and Logistic Services Division

This Division made material arrangements for all meetings held in Geneva and also the CCIR Plenary Assembly in Düsseldorf. Negotiations and preparations relating to the WARC-92 in Spain commenced.

Activities concerning the preparation of estimates of work for budgetary purposes covering 1991-1994, the annual work plan for translation, data capture and reprography, resource planning and scheduling (calendars, etc.) were continued. All aspects of the implementation of Resolution No. 59 (Nice, 1989) concerning the new working languages were supervised and coordinated. The programme for translation was established in consultation with the three language groups concerned, and special Agreements were re-negotiated with printing houses in China and the USSR.

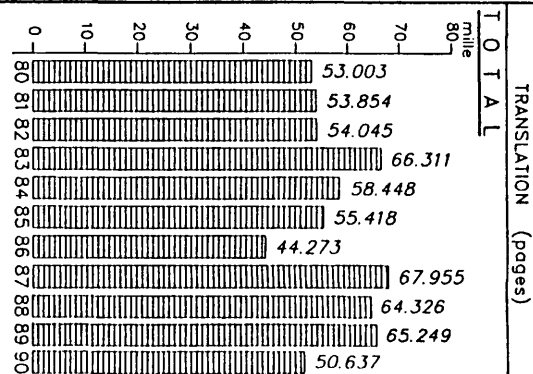
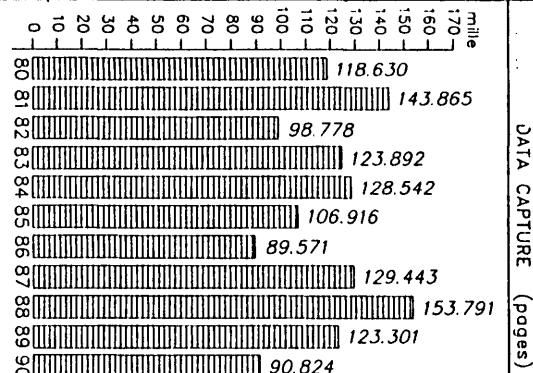
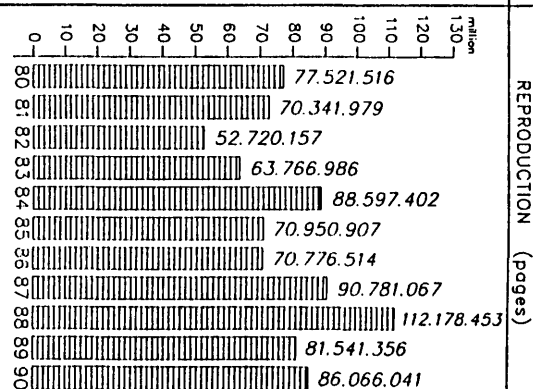
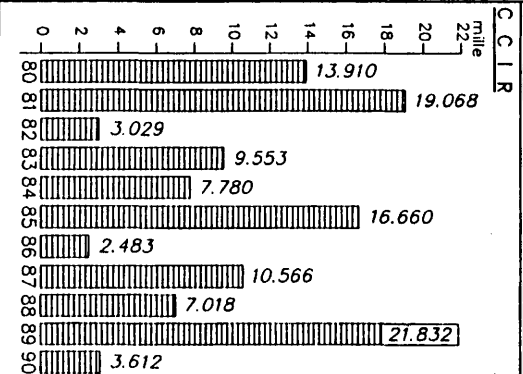
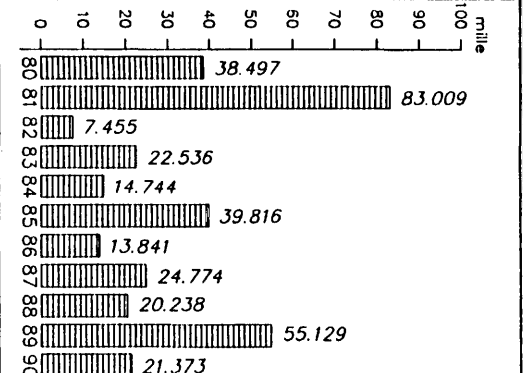
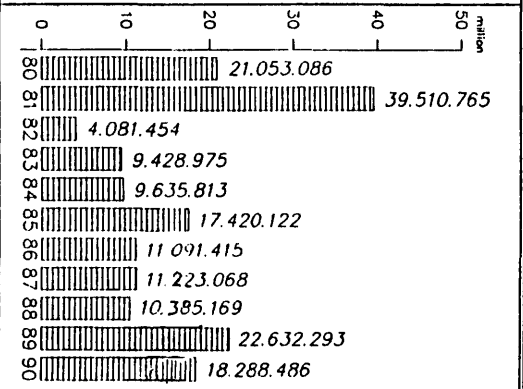
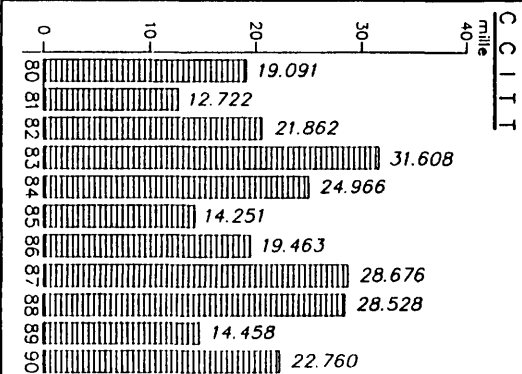
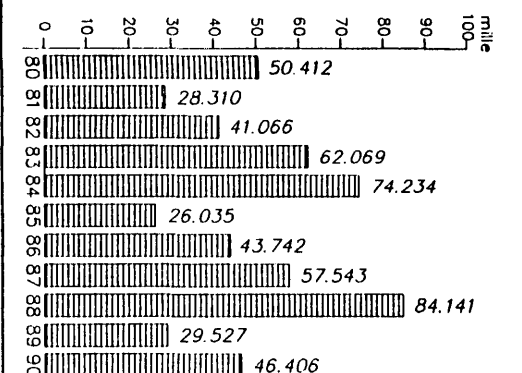
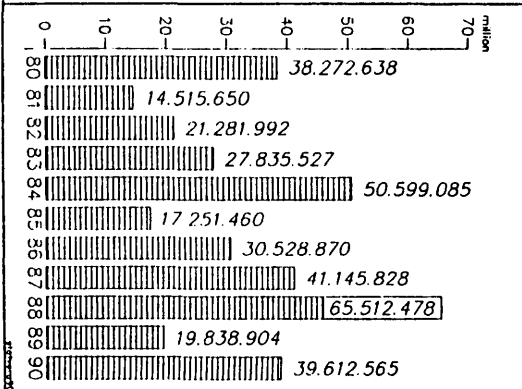
The Logistics Services took part in various technical meetings as well as administrative meetings of the joint purchasing group of the United Nations Office in Geneva. Market studies were continued and numerous calls for bids were launched with a view to obtaining the best quality/price levels for building maintenance, as well as for the purchase or rental of office furniture, various machines and office supplies. Savings of 37,815 Swiss francs were made on procurement and furnishings, 28,000 Swiss francs on supplies and 7%-9% on the consumption of water, electricity and heating oil by the use of automatically controlled programmes.

Expenses relating to furniture and machines amounted to 2,933,468 Swiss francs; office supplies 1,687,000 Swiss francs and building maintenance 2,303,000 Swiss francs.

Strict administration of office allocations was continued. The reorganization of the IFRB Secretariat gave rise to a large number of personnel moves. The contract for the rental of the 5th floor of Vermont-Nations was cancelled, saving seven months' rent (99,500 Swiss francs), and staff were rehoused in ITU premises, following the readaptation of office space. The former CCITT Laboratory was converted into the Computer Training Centre, with offices for the technical services of the Computer Department. The restaurant was transferred to the 15th floor of the Tower, at no cost to the Union. Storage space in the Port Franc was given up, resulting in a saving of 20,000 Swiss francs per year, and the material was transferred to the new ITU extensions.

The Logistic Services were involved in supervising the termination of the building extensions, including testing of the installations under guarantee.

DOCUMENT SERVICING ACTIVITIES

TRANSLATION (pages)			DATA CAPTURE (pages)			REPRODUCTION (pages)		
TOTAL								
 <p>0 10 20 30 40 50 60 70 80</p> <p>80 19.091 81 12.722 82 21.862 83 31.608 84 24.966 85 14.251 86 19.463 87 28.676 88 28.528 89 14.458 90 22.760</p>			 <p>0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170</p> <p>80 53.003 81 53.854 82 54.045 83 66.311 84 58.448 85 55.418 86 44.273 87 67.955 88 64.326 89 65.249 90 50.637</p>			 <p>0 10 20 30 40 50 60 70 80 90 100 110 120 130</p> <p>80 77.521.516 81 70.341.979 82 52.720.157 83 63.766.986 84 88.597.402 85 70.950.907 86 70.776.514 87 90.781.067 88 112.178.453 89 81.541.356 90 86.066.041</p>		
 <p>0 2 4 6 8 10 12 14 16 18 20 22</p> <p>80 13.910 81 19.068 82 3.029 83 9.553 84 7.780 85 16.660 86 2.483 87 10.566 88 7.018 89 21.832 90 3.612</p>			 <p>0 10 20 30 40 50 60 70 80 90 100</p> <p>80 38.497 81 83.009 82 7.455 83 22.536 84 14.744 85 39.816 86 13.841 87 24.774 88 20.238 89 55.129 90 21.373</p>			 <p>0 10 20 30 40 50</p> <p>80 21.053.086 81 39.510.765 82 4.081.454 83 9.428.975 84 9.635.813 85 17.420.122 86 11.091.415 87 11.223.068 88 10.385.169 89 22.632.293 90 18.288.486</p>		
 <p>0 10 20 30 40</p> <p>80 50.412 81 28.310 82 41.066 83 62.069 84 74.234 85 26.035 86 43.742 87 57.543 88 84.141 89 29.527 90 46.406</p>			 <p>0 10 20 30 40 50 60 70 80 90 100</p> <p>80 38.272.638 81 14.515.650 82 21.281.992 83 27.835.527 84 50.599.085 85 17.251.460 86 30.528.870 87 41.145.828 88 65.512.478 89 19.838.904 90 39.612.565</p>			 <p>0 10 20 30 40 50 60 70</p> <p>80 38.272.638 81 14.515.650 82 21.281.992 83 27.835.527 84 50.599.085 85 17.251.460 86 30.528.870 87 41.145.828 88 65.512.478 89 19.838.904 90 39.612.565</p>		

4.1.4 Computer Department

Effective use of Information Technology is of vital importance in carrying out the Union's missions. An Information Technology strategy was presented to ITU management. Key elements of this strategy include a networked client-server infrastructure and focus on mission critical applications such as information exchange.

Steps taken to realize this included extension of the use of the ITU's Telecom Information Exchange Services (TIES), with an official announcement made in October 1990, acquisition of an advantageously priced powerful workstation, and introduction of a new document production system.

Annex 4 contains a summary of the Computer Department activities in 1990.

4.1.5 Department of External Relations

The Department of External Relations comprises three Divisions: Relations with the United Nations and other International Organizations, Telecommunication Regulations and Relations between Members of the Union and Public Relations. The office of Legal Adviser is also attached to this Department.

4.1.5.1 In 1990, the Division responsible for Relations with the United Nations and other International Organizations ensured close working contacts with the United Nations and its subsidiary bodies on matters of common interest and also coordinated the activities of the Union with other specialized agencies (see for more details Section 7 of this Report).

4.1.5.2 The activities of the Union's Legal Service remained in substance similar to the ones reported for the preceding years (see Reports on previous years, in particular under 6.1.5 of the 1989 Report), but continued to increase considerably in 1990, both in their general scope and, in particular, because of the Legal Service's close involvement in the work carried out by the General Secretariat for the Union's "High Level Committee to review the structure and the functioning of the Union", as the Legal Adviser formed active part of the special Secretariat set up for that Committee.

4.1.5.3 Telecommunications Regulations and Relations between Members Division

The responsibilities of this Division include : support to major ITU legislative and administrative forums; the provision of diverse formal and informal information services, including the reciprocal exchange of information among Members; advisory, liaison and administrative activities. The Division provides these functions through four major subdivisions with personnel specialized in organizational matters concerning legislative forums, telecommunication regulations and operations, radio regulations and operations and mobile services and operations.

1990 accomplishments

Support to major ITU legislative and administrative forums

In 1990, the Division established and dispatched to the Members of the Union the certified true copies of the 1989 Nice Constitution and Convention.

The Division assists Members in the national ratification process, receives the treaty instruments and gives global notice of accessions. The activity may also include the organization and conduct of preparatory seminars related to these conferences, participation in preliminary meetings and consultations.

In 1990, extensive support was provided for the 45th Session of the Administrative Council and for the First, Second and Third Meetings of the High Level Committee (HLC).

Developmental action related to evolutionary objectives

The Division is pursuing the introduction of facsimile and electronic bulletin board, messaging and document transfer methods for providing notice and for obtaining, organizing, editing and disseminating all material that is part of, or related to, ITU legislative and administrative forums.

Provision of information exchange services

One of the Division's major activities consists of creating and maintaining numerous information exchange services important to basic institutional, regulatory, administrative, operational, tariff and statistical activities of the Union, its Members, operating agencies and users. These include not only the dedicated information systems (see Annex 5 to the Report), but also a large number of ad hoc communications between and among Members, RPOAs, SIOs and others.

The maintenance activity requires solicitation of new information, as well as examination and verification of numerous notifications received from administrations and operating agencies to ensure accuracy and consistency. For the larger information system files, the updating information consists of thousands of records. Misinterpretations, ambiguities and errors in notifications frequently necessitate additional correspondence with notifying parties. Increasingly, information system capabilities have been introduced to accomplish some of these tasks automatically.

Development action related to evolutionary objectives

The Division, together with the Computer Department, is devoting considerable resources to the rapid development and implementation of contemporary, cost-effective information technologies to significantly improve information services provided. These include the implementation of a wide variety of products in various electronic and magnetic forms, such as for example the ITU's TIES system for common external access.

Advisory, liaison and administrative activities

The Division provides advisory support on a wide range of technical, regulatory and administrative matters to the staff within the permanent organs of the Union and to administrations, RPOAs, technical enterprises, trainees and other interested parties by replying to numerous requests for information relating to the application of relevant regulatory texts concerning international telecommunication services.

The Division provided extensive representation, liaison and substantive participation in many forums within other organs of the Union and other intergovernmental or non-governmental organizations (IMO, INMARSAT, ISO, IALA, UPU, CICR).

In pursuance of the Radio Regulations, the Division provided allocation of ship station selective call numbers, numbers for predetermined groups of ship stations, blocks of coast station identification numbers, international call series and maritime identification digits.

4.1.5.4 Public Relations Division

In 1990 the ITU celebrated its 125th anniversary, a summary of which is given below, followed by a brief account of the Division's activities during the year.

125th Anniversary of the ITU: The Union organized a broad programme of events to celebrate its 125th anniversary, including an Open Day, which was held on 13 May 1990. This featured an exhibition of telecommunications of the past, present and future, covering 1000 m² and displaying 150 panels in three languages.

a) Press and Information activities

The Press and Information section prepared the documentation required for the 22nd World Telecommunication Day (a press release, a series of photographs illustrating the theme, the Secretary-General's Message and a video on the history of the ITU). It also published 20 press releases and a brochure on the work of the ITU and organized 13 talks or discussions. The XVIIth Plenary Assembly of the CCIR was given broad coverage (with the accreditation of 81 journalists, representing 52 magazines, 11 dailies, four television stations, one radio station, five press agencies, and three independent journalists).

The Youth in the Electronic Age Competition 91 (as part of TELECOM 91): The competition, organized on the theme: *What are telecommunications for?*, was launched on 22 November 1989. The international jury met on 8 and 9 April 1991 to nominate 15 prize winners.

b) Telecommunication Journal

The section published 881 pages of text in the *Journal*, the Table of Satellites launched in 1989 and a special issue on high-definition television.

c) Graphics/Audiovisual service

The section assisted with the make-up of the *Journal* and preparations for the World Telecommunication Day, etc.

d) Central Library, documentation and archives service

Central Library: The Library acquired 525 volumes (136 purchased and 389 donated). It also provided lending and reference services to Headquarters staff, delegates to ITU conferences and outside users. It issued the *List of periodicals*, the *List of annual publications*, the *List of recent acquisitions* and *Current Contents*, and published 167 book reviews in the *Journal*.

Film Library (close to 500 films/videos): The Film Library responded to some 210 requests for the loan of films, involving 656 showings to 81,000 viewers.

Documentation: The report *Information dissemination and documentation at the ITU in the 1990s* was presented at the Seminar *Information Management: Education and Practice* (Budapest, 24-27 April 1990).

Address bank: Some 9000 addresses were updated. In addition, the 1990 cumulative index of the *Telecommunication Journal* appeared in February 1991.

Archives:

Printed archives: 200 requests for the consultation and research of printed documents were handled during 1990.

- Semi-active and inactive archives: 96 linear metres of files are deposited by various services of the Union. 429 requests for files were dealt with in the course of the year..
- Microfilms and microfiches: 110 rolls of film and 3 microfiche copies.

Book Fair 91 (as part of TELECOM 91): 45 publishers from 13 countries were registered by the end of 1990.

Film Festival 91 (as part of TELECOM 91): 18 films entered from 8 countries.

4.1.6 Communications Service

The activities of the Communications Service in 1990 may be divided as follows:

Mail

84,081 items of outgoing mail (letters and printed material) were processed and franked in 1990. The total cost for postage was 143,926.80 Swiss francs. These figures represent a 33.2% decrease in items compared to 1989 (including a 55% drop in printed material) and a 32.5% decrease in postage costs. The figures do not include parcel post handled by the Dispatch Service. In addition, 815 (760 in 1989) items of correspondence were dispatched via the United Nations Diplomatic Pouch.

Telex

A total of 48,140 messages were processed (30,227 outgoing and 17,913 incoming), corresponding to a decrease of about 8% compared with the 1989 figures, which is due, to a large extent, to the increasing number of messages sent by facsimile. In addition, 216 circular-telegrams were sent to Member administrations.

Facsimile

In February 1990, the TELECOM Secretariat started handling its own incoming and outgoing fax traffic. In May 1990, fax machines for incoming traffic were installed in the various permanent organs and in certain departments of the General Secretariat. Traffic remained fairly steady with the number of pages sent and received in 1990 throughout ITU, totalling approximately 121,084 (a 1.6% decrease compared to the 1989 figures). The Communications Service handled approximately 73% of all incoming messages and 75% of all outgoing ones; the Service can now reach 140 administrations by fax, compared with 116 in 1988.

Delegate Servicing

A "delegates computer lounge" was set up in February 1990 adjacent to the Communications Service offices with computer and printing facilities (three computer terminals and three printers) for delegates. Other terminals and printers were also made available to delegates in the meeting room area of the second basement.

Computerized Directory Maintenance

The Service began maintenance in machine-readable form of all directories under its responsibility (Circular-letters, DM-letters, Service Orders, Office Memoranda), making information available throughout the ITU both on the videotex and the document server.

4.1.7 Special Projects (TELECOM)

Throughout 1990, preparations continued for Telecom 91, 6th World Telecommunication Exhibition, to be held by the International Telecommunication Union in Geneva from 7 to 15 October 1991.

The exhibition will be accompanied by the important Forum 91, and the Telecom 91 Book Fair, the Youth Competition and the Film Festival. Forum 91 comprises 5 parts: the Policy, Technical, Regulatory and Economic Symposia, and, for the first time, a Workshop entitled "Telecommunications - Everyone's Right", geared to handicapped and disabled people and how telecommunications can make their lives easier.

1990 also saw Africa Telecom 90, jointly organized by the International Telecommunication Union and the Posts and Telecommunications Corporation of Zimbabwe (PTC). AFRICA TELECOM 90, the second regional telecommunication exhibition held by the ITU at the invitation of an African country, Member of the Union, was inaugurated on 4 December 1990 in the presence of His Excellency the Hon. R. G. Mugabe, President of the Republic of Zimbabwe. Some 1.500 people - 29 Ministers, Ambassadors, 145 Director-Generals of Telecommunication Administrations and over 550 executives and engineers from 94 countries attended the opening of Africa Telecom 90 as well as of the African Telecommunication Development Conference (6 to 11 December 1990)

The event comprised a telecommunication exhibition in which 124 organizations and companies from 22 countries participated.

The AFRICA TELECOM 90 Forum attracted participants from virtually all administrations on the African continent and from the private sector world-wide. Seven Ministers and other top level speakers developed topics of a financial and technical nature under the theme of the Forum "Development Strategies for Resources, Management and Technology".

4.2 Activities of the IFRB

4.2.1 Maintenance of the Master International Frequency Register (Master Register), the International Frequency List and related service documents

a) The Master Register at the end of 1990 contained particulars of 1,110,693 assignments representing 5,304,547 records which will be published in March 1991 in the next update (Edition 12.6) of the 12th Edition of the International Frequency List.

4.2.2 Treatment of frequency assignment notices

a) Detailed statistics on frequency assignments received and treated during the year 1990 appear in the following table:

Number of:	Article 12 (Sub-sections IIA, IIB, IIC and Section V)	Article 12 (Sub-section IIE)	Article 13	Article 17	Total
Assignments notified in 1990 and requiring examination	22,777	3,420	14,700	33,351	74,248
Cancellations notified in 1990	1,112	284	1,441	2,685	5,522
Total	23,889	3,704	16,141	36,036	79,770

b) Statistics relating to the treatment of the frequency assignment notices during 1990 are given below:

Number of:	Article 12 (S. sect. IIA, IIB & IIC)	Article 12 (Sec. V & VI)	Article 12 (S. Sec. IIE)	Article 13	Article 17	Total
Assignment notices subjected to examination in 1990	18,092	1,425	5,256	16,840	37,647	79,290

c) The IFRB published 719 Special Sections of 22 different types in application of the provisions of the Radio Regulations or Regional Agreements. It should be noted that in the preparation of each Special Section there is a need to process and examine the information received from administrations and communicate the results to all administrations concerned as required by the relevant procedures.

4.2.3 Examination of frequency assignments to terrestrial stations in the bands below 28 MHz (Article 12 of the Radio Regulations)

The Board carried out, in accordance with the provisions Article 12 of the Radio Regulations, the examination of 6,163 notices relating to new frequency assignments or to changes in assignments already recorded in the Master Register.

4.2.4 Examination of frequency assignments to terrestrial stations in the bands above 28 MHz (Article 12 of the Radio Regulations)

In the bands other than those shared with space radiocommunication services, 14,265 assignment notices were received; in the bands shared with space radiocommunication services, 3,704 assignment notices were received. The numbers of assignments examined in these two categories were 13,249 and 5,256 respectively.

4.2.5 Examination of notices of frequency assignments to stations in space radiocommunication services (Article 13 of the Radio Regulations)

a) The IFRB received 14,700 frequency assignment notices for stations in the space radiocommunication services, submitted for examination and recording in the Master Register. The information consisted of 1,638 notices relating to 53 space stations and 13,062 notices relating to 514 earth stations. The Board examined and treated 16,840 notices in accordance with the provisions of Article 13.

b) A list of positions assigned to space stations installed on board geostationary satellites, together with frequency bands used by these stations which were communicated to the IFRB in the framework of Articles 11 and 13 of the Radio Regulations, is kept up to date by the IFRB and is published quarterly with the weekly Circular.

4.2.6 High Frequency Broadcasting Schedules (Article 17 of the Radio Regulations)

a) In application of Article 17 of the Radio Regulations, the Board prepared and published four Tentative High Frequency Broadcasting Schedules in frequency bands between 5 950 kHz and 26 100 kHz allocated exclusively to the broadcasting service for the four seasonal periods in 1990 and 1991.

The number of frequency assignments notified by administrations and dealt with by the IFRB is given in the tables in paragraph 4.2.2 above.

b) The Board published the Final Schedules from March 1989 to November 1989 with all the information called for under Section VII of Article 17 of the Radio Regulations.

c) Changes in the Tentative Schedules notified by administrations to be put into effect during the seasonal periods were regularly published in Part IV of the weekly Circular or in the Final Schedule. In 1990 the Board dealt with 6,203 changes notified by administrations for inclusion in the Schedules.

4.2.7 Implementation of the decisions of the Regional Administrative MF Broadcasting Conference (Region 2), Rio de Janeiro, 1981

a) 1,405 entries, concerning 17 administrations, recorded in the Plan but not brought into service were deleted from the Plan.

b) The Board transferred from List B to List A 92 entries for which all necessary agreements had been reached.

c) The Board organized a seminar in Ottawa to resolve incompatibilities in the Plan (List B) and also incompatibilities appearing the Master Register. The agreements forms received during this seminar for transferring assignments from List B to List A of the Plan have been analyzed, and the results were communicated to the administrations.

4.2.8 Application of the procedure of Resolution No. 300

The Board applied the procedure of coordination laid down in Resolution No. 300 for 87 radio channels of 9 administrations for narrow-band direct-printing telegraph and data transmission systems (paired frequencies).

4.2.9 Worldwide frequencies in the aeronautical mobile (R) service (Recommendation No. 402)

The Board applied the frequency selection and coordination procedure of Recommendation No. 402 of WARC-79 to 31 channels of 4 administrations in close collaboration with the International Civil Aviation Organization (ICAO).

4.2.10 Special assistance to administrations

- a) The Board studied, under the relevant provisions of the Radio Regulations or Regional Agreements, 129 requests for special assistance received from administrations for both terrestrial and space radiocommunication services.
- b) No request under RR1218 (selection of frequencies for stations in the fixed service between 3 000 kHz and 27 500 kHz) was either received or treated in 1990, as was the case in 1989.

4.2.11 Cases of harmful interference

- a) All reports of harmful interference are treated by the Board as matters of urgency, particularly where safety services are involved.
- b) Some cases are communicated to the Board for information only, while others request the assistance of the Board. During 1990 the Board dealt with 94 cases.

4.2.12 Monitoring

- a) Pursuant to RR1885 three summaries of monitoring information were issued.
- b) In addition, two Special Monitoring Programmes were initiated by the Board, one for monitoring in the HF bands allocated to the broadcasting service (Resolution No. 513), and the other in the band 406 -406.1 MHz (Resolution No. 205).

4.2.13 Review of the Master Register and Review of Findings

- a) In accordance with Sections V and VI of Article 12 of the Radio Regulations, the Board carried out several reviews of selected bands of assignments recorded in the Master Register and effected necessary modifications to their Findings and/or the associated remarks in the different columns.
- b) The Board also undertook an exhaustive study of the various symbols used in Columns 13A and 13B of the Master Register with a view to simplifying them.

4.2.14 Treatment of resubmitted notices - RR1255

The number of resubmitted assignments treated under the RR1255 procedure during the year was 580, whereas the number of such assignments subjected to this treatment since the initial application (in June 1985) was 4,196. In 3,229 cases, administrations were consulted. This corresponds to 9,583 assignments recorded in the Master Register, which had been the cause of unfavourable Findings. No reply was received in 62% of these assignments.

4.2.15 Activities preparatory to the WARC-HFBC-93

- a) Pursuant to the decisions taken by the WARC-HFBC-87, the IFRB continued to carry out the work relating to the development of the Improved HFBC Planning System.
- b) On 5 January 1990, the IFRB issued a circular-letter (No. 807) requesting administrations to submit the broadcasting requirements to be used for the testing of the Improved HFBC Planning System. The IFRB also submitted to the 45th Session of the Administrative Council, a report regarding the resources necessary to undertake various interactive and non-interactive planning exercises. Further to the decisions of the 45th Session of the Administrative Council the IFRB dispatched Circular-letter No. 831 dated 20 July 1990 which indicated the exercises that would be conducted by the IFRB, together with the time frame during which they would be carried out.

c) By the deadline for the submission of requirements only a limited number of administrations had submitted their requirements which then led the IFRB to issue several reminders. Very long delays in communication with administrations were observed and as of end 1990, about 40 administrations had not yet responded to various reminders dispatched by the IFRB.

4.2.16 Establishment of an initial allotment arrangement in the newly available channels for duplex radiotelephony in the HF bands of the maritime mobile service

a) The IFRB continued the activities on the project, initiated in response to Resolution No. 325(Mob-87), relating to the development of an automated Planning System for preparing the initial allotment arrangement in the newly available channels reserved for HF duplex radiotelephony in the HF bands allocated on an exclusive basis to the maritime mobile service (Appendix 25).

b) 1,685 requirements from 44 administrations were processed and, 1,327 requirements were included in the initial allotment arrangement (1,312 requirements in the newly available channels and 15 requirements in the existing channels). The results were published and communicated to the administrations with the IFRB Circular-letter No. 836.

c) All steps of the procedure, set forth in Resolution No. 325(Mob- 87), were completed within the time frame established by the WARC-MOB-87.

4.2.17 Follow-up actions on the decisions of the World Administrative Conference on the Use of the Geostationary-Satellite Orbit and on the Planning of Space Services Utilizing It, Geneva, 1988

a) Pursuant to the decisions taken by the Conference, the IFRB continued to carry out the post-conference work related to the following subjects:

aa) Allotment Plan

On the basis of the technical models to be used, the allotment plan analysis software was developed and tested. The procedures adopted by the Conference were reviewed, possible interpretations for some cases were adopted by the Board, and the generalized parameters were published.

ab) Feeder-link Plan

On the basis of the study of the appropriate technical models, an analysis software package was developed, including power control computations.

ac) Notice forms and associated computer systems

Following the revision of Appendices 3 and 4 new forms of notice were developed and these were forwarded to administrations, along with instructions for their completion, in IFRB Circular-Letters Nos. 820 and 839.

4.2.18 Follow-up actions on the decisions of the Second Session of the Regional Administrative Radio Conference to establish a Plan for the Broadcasting Service in the Band 1 605 - 1 705 kHz in Region 2 (Rio de Janeiro, 1988)

a) The Final Acts of the RJ88 Agreement entered into force on 1 July 1990. The software system for analyzing incoming RJ88 notices from administrations was completed.

b) The software system for the examination of existing fixed and mobile assignments pursuant to Resolution No. 1 to determine if they are incompatible with the RJ88 Allotment Plan was completed. The results will be communicated to administrations early in 1991.

4.2.19 Follow-up actions on the decisions of the Second Session of the Regional Administrative Radio Conference for the planning of VHF/UHF Television Broadcasting in the African Broadcasting Area and Neighbouring Countries, Geneva, 1989.

- a) The Board took the necessary actions to enable the implementation of the Geneva 1989 Agreement in time.
- b) The following tasks were also performed :
 - ba) Calculation of final analysis to establish the reference situation.
 - bb) Publication of national extracts of the Geneva 1989 Plan and its Appendix and of the final analysis on paper which were dispatched to each administration.
 - bc) Preparation of software for Article 4 procedure.

4.2.20 Follow-up action on the decisions of the Plenipotentiary Conference (Nice, 1989) in relation to frequency and orbit matters

- a) The IFRB continued the activities on the improvement in the use by the aeronautical mobile (OR) service of the frequency bands governed by Appendix 26, initiated in response to Resolution No. 9 (PL-B/2), of the Plenipotentiary Conference, Nice, 1989. The Board prepared an explanatory report to the 45th Session of the Administrative Council (Document CA45/6977), as well as an appropriate circular-letter to administrations (IFRB Circular-letter No. 823). A draft new channelling arrangement was prepared, taking into account the comments received from the administrations. In addition, a multi-address letter was sent to the 58 administrations, which have no assignments recorded in the MIFR on their behalf, in the aeronautical mobile(OR) service in the HF bands allocated exclusively to that service, asking them to consider their needs for allotments and, where appropriate, to submit their requirements.

4.2.21 Seminars, information meetings, training and familiarization for administration officials

- a) The IFRB organized a seminar to assist administrations of Region 2 in resolving the incompatibilities that remained between stations in the MFBC band. At the invitation of the Administration of Canada, the Seminar took place in Ottawa from 4 to 7 September 1990. 39 participants from 23 countries and 1 inter-regional organization representing the Caribbean countries attended.
- b) The IFRB organized in Geneva its regular biennial Seminar on Frequency Management and the Use of the Radio Frequency Spectrum and the Geostationary-Satellite Orbit from 8 to 12 October 1990. The main theme chosen for the Seminar was Terrestrial Services. In addition, it was decided to invite two Administrations, those of Canada and Italy, to provide a lecturer each to speak on computer-related subjects dealing with frequency management. There were 199 participants from 68 countries and 1 international organization and a Seminar Booklet containing 21 speakers' papers was prepared and distributed to participants. Many of the participants to the Seminar stayed for a period of one to two weeks for further training.
- c) Members of the Board and staff of the IFRB specialized secretariat participated in 8 regional and national seminars and symposia.
- d) The IFRB received officials from 16 administrations and 2 international organizations for training in the IFRB specialized secretariat.
- e) Furthermore, the IFRB received, throughout the year, officials from many administrations and representatives of the international organizations for informal consultations during ITU conferences and meetings.

4.2.22 Publications and correspondence with administrations in 1990

a) Publications

aa) The weekly Circular, the International Frequency List (Editions 12.4 and 12.5) and the List of Stations in the Space Radiocommunication Services and in the Radio Astronomy Service (List VIII A, Editions 8.8 and 8.9, now including strapping tables but still not Section III containing data on radio astronomy) were published in accordance with the established timetable.

ab) Other publications included the "HFBC Schedule (Article 17) Files on Diskettes Notes" booklet, and the IFL on CD-ROM booklet.

ac) Besides these documents, 43 new circular-letters (including 8 concerning IFRB Rules of Procedure) were published.

b) Correspondence

The total number of letters and telegrams received by the IFRB in 1990 was 6,080 while 4,651 individual letters and telegrams, 145 circular-telegrams and 1,241 Finding forms were sent by the IFRB.

4.2.23 Use of the computer

a) The IFRB used the ITU mainframe computer for conference preparation and for regular IFRB work such as technical examinations, modifications to the Plans, updating of the Plans and studies for administrations, determination of incompatibilities, preparation of the Special Sections, compatibility calculation between space networks in the application of the procedures of Articles 11 and 13, and coordination contours of Earth stations according to Appendix 28.

b) The Frequency Management System in the IFRB

ba) General

Efficient support for the application of the radio regulatory procedures relating to notification, examination and registration of frequency assignments is now provided through a software system referred to as FMS-A, which was in production throughout 1990.

bb) Software design for terrestrial applications

bba) In the context of work to be carried out by the IFRB in the application of Resolution No. 325 (MOB-87) relating to the update of Appendix 25, the software system for data capture and validation and for the planning exercise performed satisfactorily. Terrestrial functions of FMS-A (T-Hub) will need to be upgraded to reflect the MOB-87 requirements by June 1991, and the analysis and design work for this purpose was started in October 1990.

bbb) A series of further assignment plans were added to the PMS database which provided satisfactory service. This action has led to the possibility of offering the administrations a highly flexible information-extract service with respect to the following assignment plans : ST61, GE75, RJ81, GE84, GE85 and RJ88.

bc) Software design for space applications

bca) Following the decisions of the WARC-ORB-88, the analysis of the data in the new Appendix 3 and Appendix 4 of the Radio Regulations led to the design of new notice forms for space services. The design of the database was completed, and the development of software for data capture and validation progressed well.

bcb) Regarding Appendices 30, 30A and 30B, work on software has progressed and is being prepared for interfacing with the overall processing system.

bcc) A powerful Graphics Interference Management System (GIMS) able to capture, store and modify graphical data such as contours of service areas, antenna diagrams, horizon profiles and satellite foot prints is interfaced to technical examination programs. Operators can modify individual gain contours and create service areas from gain contours. The IFRB Digitized World Map is used for screen overlays and plots. A set of programs permits the conversion of graphical data files from the internal format to machine-independent format and vice versa, thus facilitating the exchange of such data with administrations.

bd) Use of mainframe computers

The IFRB used the mainframe computers extensively for a variety of applications in its day-to-day work relating to the examination and processing of frequency assignment notices as well as for conference preparation which constitutes 75 per cent of their total utilization.

c) Use of microcomputers

The use of microcomputers in the IFRB Secretariat continued to expand in 1990. The microcomputer applications range from regulatory and technical examinations of aeronautical mobile (R) and (OR) services to some applications in Article 17 procedure, Appendix 28 calculations for determination or coordination area around an earth station, applications of the IFRB Digitized World Map (IDWM) and analyses required in application of Appendices 30, 30A and 30B procedures.

d) Remote Access and Electronic Publications

da) The Plenipotentiary Conference in Nice approved plans to implement remote access facilities to IFRB databases. Consequently, the IFRB started tests in this field with some administrations and demonstrated the potential benefit for administrations through the use of available inquiry software packages.

db) As a complement to remote access for the dissemination of large volumes of relatively stable data such as the MIFR, the CD-ROM technology was used for a parallel publication of the IFL on CD-ROM, together with the inquiry and download facilities. Work on the publication of the weekly Circular (Parts I, II and III) on diskette is nearing completion.

e) PC-based products for administrations

A set of inter-related software packages has been envisaged for use on PCs within the administrations. These include data capture, limited validation, information exchange with IFRB, some engineering software and IFL on CD-ROM.

4.2.24 Collaboration with international organizations and permanent organs, and participation in ITU technical cooperation activities

a) International organizations

aa) The Board continued to maintain close relations with international organizations such as ICAO and IMO and regional organizations such as ABU, ASBU, ATU, CITEL, EBU, PATU and URTNA.

ab) The Members of the Board or members of the staff of its specialized secretariat participated in the five meetings of international organizations, where such participation was considered necessary.

b) Permanent organs

ba) The Chairman and the Vice-Chairman of the Board participated regularly in meetings of the Coordination Committee. The IFRB was represented in all the Inter-Organ Committees, Panels and Working Groups.

bb) The IFRB also actively participated in the XVIIth Plenary Assembly of the CCIR and the meetings of some CCIR Interim Working Parties, Joint Interim Working Parties and Task Groups held during the latter half of 1990.

c) Participation of the IFRB in ITU technical cooperation activities

ca) The IFRB participated in dealing with those questions concerning technical cooperation which had been submitted by the Secretary-General to the Coordination Committee. The IFRB representatives assist in selection panels for choice of experts and equipment. In addition, in 1990, the Board studied 5 reports by ITU experts.

cb) The IFRB assisted in briefing experts and in finalizing Agency Terminal Reports on matters related to frequency spectrum management.

cc) The Board also provided experts from the Members and staff of IFRB specialized secretariat for three short-term missions in Togo, Guinea Bissau and Burundi. Arrangements for organization of Joint Regional Seminars on frequency management were finalized during the year for three such seminars to be held in Greece, Cape Verde and Kenya, the first two in collaboration with BDT and the last with CTD. Furthermore, the Board received officials from several countries who visited the IFRB on ITU fellowships for training.

4.3 International Radio Consultative Committee (CCIR)

4.3.1 Introduction

The XVIIth Plenary Assembly highlighted the 1990 programme, and is reported below. Besides approving CCIR Recommendations, the Study Group structure was reviewed and new working methods were adopted. Special preparation had been carried out by an Ad Hoc Meeting of Administrations and other Organizations, and by a Study Group Chairmen's meeting held in January 1990. Following the Plenary Assembly, a meeting of Study Group Chairmen and Vice Chairmen initiated the new Working Parties and Task Groups. The new structure came into effect in September 1990.

A total of some 40 CCIR meetings were held during the year. These included two Joint (with CCITT) Groups of Experts on future mobile telecommunications, and on compatibility of network protocols related to satellite links. According to provisions of the Plenary Assembly and the Administrative Council 1990, some 8 Interim Working Parties carried out studies to prepare technical bases for the WARC-92; their conclusions were circulated to administrations in December as contributions to the work of the CCIR JIWP WARC-92 which will prepare the final CCIR Report.

4.3.2 XVIIth Plenary Assembly

The XVIIth Plenary Assembly of the CCIR was held at Düsseldorf, Federal Republic of Germany, from May 20 to 1 June, 1990. Mr. Gerhard Hausmann was Chairman. Some 520 delegates participated, representing 75 administrations, 32 recognized private operating agencies, and 17 international organizations.

Among the Recommendations approved, several concerned high definition television technical characteristics and methods of measurement. The setting up of a new IWP on harmonization of HDTV standards between broadcasting and non-broadcasting applications was endorsed. A Recommendation was approved on future public land mobile telecommunications (or "universal personal telecommunications") specifying technical and operational characteristics for global use, and spectrum requirements.

CCIR organization and working methods were reviewed to reflect telecommunications priorities for the 1990's, to streamline the decision process and to focus decision responsibility. New working methods were also required to cope with the expanding activity in a period of diminishing resources.

The most important change was to set up the new Study Group 12 to deal with urgent Questions on inter-service frequency sharing and compatibility. Former Study Group 3 (HF fixed systems) was terminated. Former Study Groups 2 (Space Research and Radioastronomy) and 7 (Standard frequencies and time signals) were combined into a new Study Group 7 on Science Services.

A procedure for approval of Recommendations in the interval between Plenary Assemblies was approved. The former working methods of Study Groups were replaced by a two (instead of three) level structure. Study Groups now assume an executive role, assigning Questions to Working Parties and Task Groups which function between Study Group meetings, and approving their draft Recommendations. Study Group meetings are to be of shorter duration than previously. Task Groups are set up to deal with urgent Questions requiring a Recommendation within 1 to 3 years.

4.3.3 The Study Groups

4.3.3.1 Study Group 1 (Spectrum management techniques) (M. Hunt (Canada))

The XVIIth Plenary Assembly adopted 3 new and 5 revised Recommendations and 42 new and revised Reports which cover the principles and techniques for spectrum engineering, planning, sharing, monitoring and utilization. Eleven Reports were suppressed as outdated. Following the new working methods adopted by the Plenary Assembly, a new structure has been adopted which places emphasis on the techniques and practices of spectrum management. The work is now carried out by four Working Parties and two Task Groups.

4.3.3.2 Study Group 2 (Space research and radioastronomy) (F. Horner (UK))

The XVIIth Plenary Assembly adopted 10 revised Recommendations and 37 new and revised Reports which cover the fields of space technology, data relay satellites and radioastronomy.

As agreed at the Plenary Assembly, Study Groups 2 and 7 have been consolidated into a new Study Group 7 (Science services).

4.3.3.3 Study Group 3 (Fixed service at frequencies below about 30 MHz) (H. Kaji (Japan))

The XVIIth Plenary Assembly adopted 2 revised Recommendations and 14 new and revised Reports which were concerned with antennas, automatically controlled HF systems and HF digital transmission.

Following the decision made at the Plenary Assembly, Study Group 3 has now been disbanded and the work incorporated in Study Group 9 (Fixed service).

4.3.3.4 Study Group 4 (Fixed-satellite service) (E. Hauck (Switzerland))

The XVIIth Plenary Assembly adopted 5 new and 9 revised Recommendations and 34 new and revised Reports which cover the field of systems and networks for the fixed-satellite service. Nine Reports were suppressed as outdated. The work of the Study Group has been organized into two Working Parties dealing with orbit utilization and systems and two Task Groups concerned with preparing Recommendations on interference problems above 10 GHz and small Earth terminals. In addition, a Joint Working Party with Study Group 9 is dealing with sharing considerations with the Fixed service, a Handbook Group is preparing a revised edition of the FSS Handbook and a Joint Expert Group with CCITT is concerned with ISDN/satellite matters.

4.3.3.5 Study Group 5 (Propagation in non-ionized media) (A. Kalinin (USSR))

The XVIIth Plenary Assembly adopted 7 new and 10 revised Recommendations and 33 new and revised Reports which cover the propagation of radio waves at or above the surface of the Earth. The work of the Study Group has been organized into three Working Parties dealing with (1) Radiometeorology, (2) Mobile services and terrestrial broadcasting and (3) Fixed services and broadcasting satellite services.

The CCIR Secretariat has also completed the Handbook of Curves for Propagation over the Surface of the Earth.

4.3.3.6 Study Group 6 (Propagation in ionized media) (L.W. Barclay (UK))

The XVIIth Plenary Assembly adopted 2 new and 8 revised Recommendations and 21 new and revised Reports which cover the field of prediction methods, propagation below 500 KHz and the proposed HF field strength campaign. The work of the Study Group has been organized into five Working Parties dealing with HF and MF-VLF propagation, noise, ionospheric forecasting and propagation above 30 MHz.

Transmissions have commenced in support of the world-wide HF field strength measurement campaign and systematic measurements are being undertaken by certain administrations.

4.3.3.7 Study Group 7 (Science services) (H.G. Kimball (USA))

XVIIth Plenary Assembly adopted 2 new Recommendations, 5 revised Recommendations and 16 new or revised Reports, prepared by former Study Group 7 and concerning standard frequency and time signal emissions.

Study Group 7 is a new Study Group consolidating the work of former Study Groups 2 and 7. The work has been organized into four Working Parties dealing with time signals and standard transmissions, space radio systems, Earth exploration and meteorology and radioastronomy. Two Task Groups are concerned with frequency sharing and standard frequency and time signals from satellites.

A Handbook Group is also preparing the Handbook on Standard Frequency and Time Signals from Satellites.

4.3.3.8 Study Group 8 (Mobile, radiodetermination and amateur services) (E. George (Germany))

The XVIIth Plenary Assembly adopted 8 new and 12 revised Recommendations and 83 new and revised Reports covering Global Maritime Distress and Safety System (GMDSS), Future Public Land Mobile Telecommunications Systems (FPLMTS) and the mobile services on air, land and sea. Twelve Reports were suppressed as outdated. The work has been organized into four Working Parties dealing with (1) Land mobile and amateur services, (2) Maritime and aeronautical mobile services, (3) Radiodetermination service and (4) Mobile satellite services. A Task Group has been set up to deal with the FPLMTS. Special mention should be made of the report prepared by IWP 8/13 which will form the basis of the new Recommendation for the FPLMTS.

4.3.3.9 Study Group 9 (Fixed service) (M. Murotani (Japan))

The XVIIth Plenary Assembly adopted 7 new and 15 revised Recommendations and 36 new and revised Reports on frequency sharing and line-of-sight and trans-horizon radio-relay systems. Eleven Reports were suppressed as outdated. The structure of the Study Group has been reorganized to take account of the amalgamation with Study Group 3. The work is now organized into five Working Parties dealing with 1) performance and availability objectives, (2) Radio-frequency channel arrangements and systems, (3) special applications, (4) sharing and (5) HF systems. A Task Group has also been set up to deal with the synchronous digital hierarchy.

4.3.3.10 Study Group 10 (Broadcasting service (sound)) (C. Terzani (Italy))

The XVIIth Plenary Assembly adopted 7 new and 15 revised Recommendations and 26 new and revised Reports which cover the fields of AM

and FM transmissions, audio-frequency characteristics and data broadcasting. Three Recommendations and 8 Reports were suppressed as outdated.

The work of the Study Group has been organized into four Working Parties, two Task Groups and two Joint Working Parties with Study Group 11. As a consequence of the reorganization, all of the joint activities which are carried out with Study Group 11 will be the responsibility of Study Group 11 except for a few Questions solely dealing with sound broadcasting.

4.3.3.11 Study Group 11 (Broadcasting service (television))
(M. Krivocheev (USSR))

The XVIIth Plenary Assembly adopted 5 new and 15 revised Recommendations and 69 new and revised Reports which cover the fields of conventional and high-definition television, recording techniques and satellite broadcasting. One Recommendation and 3 Reports were suppressed as being outdated.

The work of the Study Group has been organized into five Working Parties, two Task Groups and two Joint Working Parties with Study Group 10. The Study Group will also take responsibility of the major part of the joint activities carried out with Study Group 10.

4.3.3.12 Study Group 12 (Inter-service sharing and compatibility)
(J. Karjalainen (Finland))

This new Study Group was created at the XVIIth Plenary Assembly to deal with a limited number of urgent and important Questions on inter-service sharing and to prepare the necessary Recommendations. The Study Group has only been established for the present work cycle and its future will be decided at the next Plenary Assembly. The work has been organized into three Working Parties dealing with the compatibility between FM broadcasting and the aeronautical services, frequency sharing between the broadcasting service and certain other services of VHF and UHF and the coordinated area around Earth stations.

4.3.3.13 CMTT (CCIR/CCITT Joint Study Group for television and sound transmission) (W.G. Simpson (UK))

The XVIIth Plenary Assembly adopted 8 new and 10 revised Recommendations and 26 new and revised Reports covering the fields of satellite news gathering, digital sound and television transmission and codecs. One Recommendation and 2 Reports were suppressed as out-of-date. The work of the Study Group has been organized into 3 Working Parties dealing with the analogue and digital transmission of television and sound programmes and 5 Task Groups concerned with specific transmission problems.

4.3.3.14 CMV (Vocabulary and related subjects) (M. Thué (France))

The XVIIth Plenary Assembly adopted 10 revised Recommendations covering the fields of terminology, graphical symbols and other units. It was also decided that the CMV should be replaced by a Coordination Committee for Vocabulary (CCV) which would be responsible for coordination within the CCIR, and liaison with the CCITT and other interested organizations on vocabulary and related subjects.

Details of the Study Group, IWP and JIWP meetings held in 1990 are given in Table 1.

4.3.4 Administrative Radio Conferences

4.3.4.1 WARC-92

The CCIR has advanced preparations for WARC-92 by establishing a Joint Interim Working Party of the Study Groups concerned. JIWP WARC-92 (Chairman: M. Hunt (Canada)) has prepared a draft outline of the CCIR Report based on the contributions of IWP 4/1 (A.G. Reed (UK)), IWP 8/13 (M. Callender (Canada)), IWP 8/14 (Y. Hirata (Japan)), IWP 8/15 (J. Karjalainen (Finland)), IWP 9/6 (K. Dunk (UK)), JIWP 10-11/1 (D. Sauvet-Goichon (France)), JIWP 10-11/3 (Ö. Mäkitalo (Sweden)) and JIWP 10-3-6-8/1 (J. Finnie (UK)).

4.3.4.2 HFBC-93

An Interim Working Party 10/10 (W.G. Richards (USA)) has been established to prepare the consolidated CCIR Report to HFBC-93 and will take account of the results of the work of IWP 10/1 (K. Hunt (EBU)), JIWP 10-3-6-8-1 (J. Finnie (UK)), IWP 6/1 (P. Bradley (UK)), IWP 6/15 (N. Wakai (Japan)) and Study Group 1.

4.3.5 Technical Cooperation

4.3.5.1 Support of ITU/BDT activities

The CCIR continued its participation in the selection of Experts and the review of technical details of new projects. Technical support was given to several projects and a number of reports prepared by field experts were reviewed. Continued support was also given to propagation studies in tropical regions.

4.3.5.2 Plan Committee Meetings

Continued support at either Director or Senior Counsellor level was given to all World and Regional Plan Committee Meetings. Information on CCIR activities and presentations on fixed and fixed-satellite services were given in 1990 to the Plan Committee for Asia and Oceania which was held in Bangkok.

4.3.6 Publications

4.3.6.1 XVIIth Plenary Assembly Volumes

The Volumes of the XVIIth Plenary Assembly comprise: 16 Volumes of Recommendations, 4 Volumes of Questions, 17 Volumes of Reports (published as annexes) and 1 Administrative Volume. The number of pages for the three languages is 32,055 (+31% compared to the 1986 Volumes).

The Volumes of Recommendations and Questions were processed using conventional printing methods by the General Secretariat. The Volumes of Reports (24,615 pages) were prepared by the CCIR Secretariat and were all sent to the General Secretariat before the end of November 1990. However, slow procedures delayed their publication. All Volumes were, however, available for sale in the first quarter of 1991.

4.3.6.2 CCIR software

Program "HFANT", which accompanies the separately published Recommendation 705, has been issued in 1990. This Recommendation supercedes previous editions of the CCIR Antenna Handbook.

4.3.6.3 Handbooks and Special Publications

The following publications (1,362 pages) have been prepared in 1990:

- Handbook of Spectrum Management
- Curves for Propagation over the Surface of the Earth
- Recommendation 705
- Report 340
- Compatibility between the Broadcasting Service and the Aeronautical Service.

4.3.7 Relations with other Organs of the ITU

4.3.7.1 CCITT

Very active cooperation has been maintained with CCITT, not only within the Joint Study Groups but also on all matters of common interest, in particular, on matters concerning the Future Public Land Mobile Telecommunication Systems. A Joint Experts Working Meeting has been held to discuss areas of common concern between the FPLMTS and the CCITT proposals for (Universal) Personal Telecommunications.

Another joint group of experts met to discuss insertion of satellite links within ISDN. Cooperation with CCITT was also effective within IWP 11/9, on harmonization of HDTV standards.

4.3.7.2 IFRB

Close cooperation has been maintained with the IFRB particularly on propagation matters. The CCIR continues to provide basic ionospheric data in connection with the preparation of the seasonal HF broadcasting schedule.

4.3.8 Relations with International Organizations

Close cooperation is maintained with organizations interested in the CCIR's studies. Contact has been maintained with most of the international broadcasting organizations and CCIR representatives have attended meetings of the EBU and ABU.

The CCIR and the International Electrotechnical Commission (IEC), ISO and CISPR exchange documentation and mutually participate in meetings.

Regular contact is maintained with many scientific and research organizations, such as URSI, BIPM, IAU and WMO etc. Study Group 8 has continued its close cooperation with the IMO particularly on follow-up studies on the introduction of the Global Maritime Distress and Safety System.

4.3.9 Specialized Secretariat

The Secretariat staffing has been reduced by 11% compared to 1989 levels, and a further reduction to 15% is foreseen according to financial decisions of the Plenipotentiary Conference. Every effort has been made to continue to respond to CCIR requirements but some tasks must inevitably be delayed or discontinued.

Table 1

CCIR MEETINGS IN 1990

Date	Meeting	Title
17.Jan	19.Jan CM + VCM	Meeting of Study Group Chairmen and Vice Chairmen
30.Jan	2.Feb Ad Hoc	Ad-hoc Informal Meeting of Admin. and Organizations
12.Feb	14.Feb IWP 10/1	Calculation of the radiation patterns of LF, MF and HF antennas
14.Feb	16.Feb IWP 10/9	Acoustical properties of control rooms
19.Feb	21.Feb IWP 11/7	Digital television standards
21.Feb	23.Feb IWP CMTT/3	Television and sound programme signals in the broadband ISDN
26.2.91	28.Feb Handbook/4	Handbook on satellite communications
7.Mar	9.Mar IWP CMTT/2	Digital transmission of component-coded television signals
12.Mar	12.Mar IWP 10/12	Sound systems for HDTV and ETV
21.Mar	21.Mar Group HDTV	High-definition television coordination group
22.Mar	28.Mar IWP 11/6	High-definition television standards
2.Apr	6.Apr IWP 4/2	Implementation of digital satellite systems
21.May	1.Jun CCIR PA	XVII th Plenary Assembly, Düsseldorf.
18.Jun	20.Jun IWP 10/1	Calculation of the radiation patterns of LF, MF and HF antennas
20.Jun	22.Jun IWP 10/11	System design for HF broadcasting
25.Jun	27.Jun JIWP 10-3-6-8/1	Preparation for JIWP WARC-92
3.Jul	12.Jul IWP 8/13	Future public land mobile telecommunications systems
4.Jul	6.Jul CM + VCM	Meeting of Study Group Chairmen and Vice Chairmen
27.Aug	5.Sep IWP 8/14	Technical and operating characteristics in the mobile satellite services
1.Oct	5.Oct IWP 9/5	Radio-relay systems in a synchronous digital network
2.Oct	10.Oct IWP 11/9	HDTV standard harmonization
3.Oct	5.Oct IWP CMTT/3	Television and sound programme signals in the broadband ISDN
8.Oct	12.Oct IWP 2/2	Preparation for JIWP WARC-92
18.Oct	20.Oct IWP CMTT/2	Digital transmission of component-coded television signals
21.Oct	24.Oct IWP 11/7	Digital television standards
22.Oct	26.Oct JIWP 10-9-6-8/1	Preparation for JIWP WARC-92
5.Nov	9.Nov JIWP 10-11/6	Sound and television quality evaluation
5.Nov	9.Nov CCIR/CCITT/SAT	CCIR/CCITT expert group on ISDN/Satellite matters
12.Nov	16.Nov JIWP 10-11/3	Satellite broadcasting of high-definition television (HDTV) signals
12.Nov	21.Nov IWP 8/15	Preparation for JIWP WARC-92
13.Nov	15.Nov JIWP 10-11/5	Services using data broadcasting
19.Nov	23.Nov JIWP 10-11/1	Use of geostationary-satellite orbit for portable and vehicle receivers
19.Nov	23.Nov IWP 1/6	Preparation for JIWP WARC-92
28.Nov	5.Dec IWP 9/6	Preparation for JIWP WARC-92
3.Dec	5.Dec JIWP 10-CMTT/1	Digital audio coding systems
4.Dec	5.Dec Handbook/4	Handbook on satellite communications
5.Dec	7.Dec IWP 10/12	Sound systems for HDTV and ETV
6.Dec	10.Dec TG 4/2	Drafting of Recommendation on VSAT's
11.Dec	20.Dec IWP 4/1 + WP 4A	Efficient orbit/spectrum utilization
10.Dec	14.Dec WP 5C	Fixed, fixed-satellite and broadcasting-satellite services

4.4 International Telegraph and Telephone Consultative Committee (CCITT)

4.4.1 In 1990, the activity of the CCITT Study Groups and their Working Parties focused mainly on preparing Recommendations and replies to Questions referred to them by the IXth Plenary Assembly. A total of 43 meetings were held in 1990, representing altogether 330 meeting days (see Table I - List of meetings held in 1990).

Pursuant to the provisions of Resolution No. 2 adopted by the IXth CCITT Plenary Assembly, 21 new or revised Recommendations were approved during 1990 (see § 4.4.2.1) and 77 draft new or revised Recommendations were drawn up during meetings held in 1990 and were forwarded to Members for their approval.

Furthermore, in response to requests by Members and pursuant to Article 58 of the International Telecommunication Convention (Nairobi, 1982), 2 new Questions have been approved for study during the study period (see § 4.4.2.2).

Details of the discussions which take place at Study Group meetings may be found in the meeting reports which are distributed to all the members of the CCITT.

Tables II and III give information on the participation in CCITT meetings and on contributions received in 1990.

4.4.2 *New Recommendations and Questions*

4.4.2.1 *Approval of new or revised Recommendations in the interval between Plenary Assemblies in accordance with CCITT Resolution No. 2 adopted by the IXth Plenary Assembly (Melbourne, 1988)*

1) Recommendation X.612 (Study Group VII)

Provision of the OSI connection-mode network service by packet mode terminal equipment connected to an integrated services digital network (ISDN) for CCITT applications

Approved 18 June 1990

2) Revised Recommendation F.73 (Study Group I)

Operational principles for communication between terminals on telex networks and data terminal equipment on packet switched public data networks

Approved 2 July 1990

3) Revised Recommendation I.253.1 (Study Group I)

Call waiting (CW) supplementary service

Approved 2 July 1990

4) Revised Recommendation I.255.3 (Study Group I)

Multi-level precedence and preemption service (MLPP) - Description preference service

Approved 2 July 1990

5) Recommendation I.255.4 (Study Group I)

Priority service

Approved 2 July 1990

- 6) Recommendation G.726 (Study Group XV)
40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM)
Approved 14 December 1990
- 7) Recommendation G.727 (Study Group XV)
5-, 4-, 3- and 2-bits/sample embedded Adaptive Differential Pulse Code Modulation (ADPCM)
Approved 14 December 1990
- 8) Revised Recommendation G.763 (Study Group XV)
Digital circuit multiplication equipment using 32 kbit/s ADPCM and digital speech interpolation
Approved 14 December 1990
- 9) Recommendation G.764 (Study Group XV)
Voice packetization - Packetized Voice Protocols
Approved 14 December 1990
- 10) Recommendation G.773 (Study Group XV)
Protocol suites for Q interfaces for management of transmission systems
Approved 14 December 1990
- 11) Recommendation G.781 (Study Group XV)
Structure of Recommendations on multiplexing equipment for the Synchronous Digital Hierarchy (SDH)
Approved 14 December 1990
- 12) Recommendation G.782 (Study Group XV)
Types and general characteristics of Synchronous Digital Hierarchy (SDH) multiplexing equipment
Approved 14 December 1990
- 13) Recommendation G.783 (Study Group XV)
Characteristics of Synchronous Digital Hierarchy (SDH) multiplexing equipment functional blocks
Approved 14 December 1990
- 14) Recommendation G.784 (Study Group XV)
Synchronous Digital Hierarchy (SDH) management
Approved 14 December 1990

- 15) Recommendation G.957 (Study Group XV)
Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy
Approved 14 December 1990
 - 16) Recommendation G.958 (Study Group XV)
Digital line systems based on the Synchronous Digital Hierarchy for use on optical fibre cables
Approved 14 December 1990
 - 17) Revised Recommendation H.221 (Study Group XV)
Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices
Approved 14 December 1990
 - 18) Recommendation H.230 (Study Group XV)
Frame-synchronous control and indication signals for audiovisual systems
Approved 14 December 1990
 - 19) Recommendation H.242 (Study Group XV)
System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s
Approved 14 December 1990
 - 20) Revised Recommendation H.261 (Study Group XV)
Video codec for audiovisual services at p x 64 kbit/s
Approved 14 December 1990
 - 21) Recommendation H.320 (Study Group XV)
Narrow-band visual telephone systems and terminal equipment
Approved 14 December 1990
- 4.4.2.2 *Approval of Questions for study pursuant to Article 58, No. 326, of the International Telecommunication Convention (Nairobi, 1982)*
- 1) Approval of a Question for Study Group I:
 - Question 35/I - Universal Personal Telecommunication (UPT)
 - 2) Approval of a Question for Study Group II:
 - Question 2/II - Facsimile Service Quality on the Public Switched Telephone Network (PSTN)

4.4.3 *New organizations admitted to the CCITT*

In 1990, 2 recognized private operating agencies, 6 scientific or industrial organizations and 2 international organizations were admitted to participate in the work of the CCITT. By the end of 1990, the number of organizations participating in the CCITT's work stood at:

- recognized private operating agencies: 65
- scientific or industrial organizations: 162
- international organizations: 39

The new admissions are:

a) Recognized private operating agencies:

Finland: Telecom Finland, Helsinki
(1 unit)

Portugal: Telefones de Lisboa e Porto (TLP), Lisbon
(1/2 unit)

b) Scientific or industrial organizations:

United States: AFAX, Inc. (U.S.), Portland (Oregon)
(1/2 unit)

Hewlett-Packard Company, Cupertino (California)
(1/2 unit)

Hughes Network Systems Inc., Germantown (MD)
(1/2 unit)

Intelligent Modem Corporation (U.S.), Midvale (Utah)
(1/2 unit)

Penril DataCom, Gaithersburg (MD)
(1/2 unit)

Italy: DATAMAT Ingegneria dei Sistemi, S.p.A., Rome
(1/2 unit)

c) International organizations

European Telecommunications Standards Institute (ETSI)

Caribbean Telecommunications Union (CTU)

4.4.4 *CCITT Publications*

The following Books or Handbooks were published in 1990.

4.4.4.1 *CCITT Blue Book*

Fascicles II.4, III.1, III.3, III.4, III.5, III.6, IV.1, IV.2, IV.3, IV.4, VI.1, VI.5, VI.13, VII.1, VII.2, VII.3, VII.5, VII.6, VII.7, Tome IX, Fascicle X.1 and Annexes B, C and D to Fascicle VII.5.

4.4.4.2 *Recommendations approved pursuant to CCITT Resolution No. 2*

Recommendations V.42bis, F.73, I.253.1, I.255.3, I.255.4 and X.612.

4.4.4.3 *Handbooks*

- Supplement to the Handbook on Rural Telecommunications, Volume I (GAS 7);
- Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines, Volumes I, III, IV, V, VI, VII, VIII and IX (Study Group V);
- Optical fibre system planning guide (Study Group XV).

4.4.4.4 *Plan Books*

- Supplement to the World Plan Book (Lisbon-Estoril, 1988);
- Plan Book for Asia and Oceania (Bangkok, 1990).

4.4.5 *Activities under CCITT Resolution No. 14*

In the field of technical assistance, the CCITT Secretariat contributed to seminars and to the consideration of reports by the Telecommunications Development Bureau.

The CCITT Secretariat also participated in meetings concerning the recruitment of experts and gave advice on choice of equipment.

Furthermore, the CCITT Secretariat contributed to the work of the following seminars organized by the ITU:

- UNDP Sectoral study of the telecommunications field, Warsaw, 27-31 March 1990;
- Workshop Seminar "Towards ISDN", Larnaca (Cyprus), 15-19 October 1990.

4.4.6 *Cooperation with the CCIR*

As in the past, very active cooperation has been maintained with the CCIR, not only within the joint groups (Plan Committees and CMTT), but also on all matters of common interest, in particular with respect to mobile service telecommunications, the applications of radio-relay and satellite systems in the ISDN and HDTV.

4.4.7 *Cooperation with other international organizations*

Close cooperation is maintained with organizations interested in the CCITT's studies.

The Director and the Secretariat of the CCITT have participated in a number of meetings held by such organizations, in particular UPU, IEC and ISO, with a view to coordinating the respective activities as far as possible.

The Resolutions adopted by the last Plenary Assembly on collaboration with UPU, IEC and ISO have provided a firm foundation for healthy relations between those organizations and the CCITT.

Furthermore, the Director of the CCITT participated in the assemblies of ETSI and close cooperation may be noted in areas of common interest.

TABLE I

List of meetings held in 1990

Date	Meeting
8 - 19 January	Working Parties of Study Group XVIII (ISDN)
15 - 26 January	Study Group IV (Maintenance) and its Working Parties IV/1 (Maintenance of telephone-type, leased and special circuits) IV/2 (Measuring equipment) and IV/6 (Maintenance of sound-programme TV and videoconference circuits)
24 Jan. - 2 Feb.	Working Parties GAS 9/1 (Progressive introduction of ISDN in a national network) and GAS 9/2 (Regional networking)
5 - 16 February	Study Group VII (Data Communications Networks) and its Working Parties
7 - 16 February	Study Group XII (Transmission Performance of Telephone Networks and Terminals) and its Working Parties
12 - 23 February	Working Parties III/3 (Tariffs and accounting for telex and telegraph services and data transmission services on public data networks), III/4 (Tariffs and accounting for the international telephone service and radio and television transmissions service) and Special Rapporteur's Groups on Questions 20/III, 26/III, 30/III, 13/III, 14/III, 15/III and 31/III
20 Feb. - 2 March	Study Group I (Services) and its Working Parties
26 Feb. - 2 March	Ad hoc Group - Resolution No. 18
5 - 23 March	Working Parties of Study Group XI (Switching and Signalling)
19 - 23 March	TAS Group (Tariffs (Asia and Oceania))
26 March - 4 April	Working Parties of Study Group VIII (Terminals for Telematics Services)
26 March - 6 April	Working Parties IV/3 (Management networks and interfaces), IV/4 (Maintenance strategy and principles) and IV/5 (Maintenance of systems and networks)
27 - 29 March	Coordination Committee of the Plan Committee for Africa
2 - 12 April	Network Management Development Group (NMDG) and Quality of Service Development Group (QSDG) of Study Group II
3 - 6 April	Working Parties of Study Group VI (Outside Plant)
19 - 27 April	Study Group XVII (Data Transmission over the Telephone Network) and its Working Parties
9 - 25 May	Study Group XVIII (ISDN) and its Working Parties

Date	Meeting
15 - 30 May	Working Parties III/1 (Lease of international circuits and networks for private use), III/2 (Tariffs for leased and dedicated circuits provided by digital techniques and via satellite), III/5 (Tariffs and accounting for maritime, land and aeronautical mobile services), III/6 (Tariffs and accounting for services offered on ISDN) and III/7 (Methodology for the determination of costs and establishment of national tariffs)
28 May - 1 June	Study Group IX (Telegraph Networks and Telegraph Terminal Equipment)
4 - 15 June	Working Parties of Study Group X (Languages for Telecommunications Applications)
5 - 9 June	Working Parties GAS 9/1 (Progressive introduction of ISDN in a national network) and GAS 9/2 (Regional networking)
6 - 13 June	Working Parties V/1 (Equipment resistibility and associated electrical safety problems), V/2 (Radio frequency and fast transient interference) and V/3 (Earthing and protection against lightning)
12 - 22 June	Study Group II (Network Operation) and its Working Parties
25 - 29 June	GAS 12 (Strategy for the introduction of new non-voice telecommunication services in developing countries)
16 - 27 July	Study Group XV (Transmission Systems and Equipment) and its Working Parties
3 - 6 September	GAS 7 (Rural telecommunications)
5 - 14 September	Study Group VIII (Terminals for Telematic Services)
10 - 14 September	Working Parties of the Ad hoc Group - Resolution No. 18
17 - 25 September	GAS 9 (Economic and technical aspects of transition from an analogue to a digital network (Case study of a global network) and its Working Parties
25 - 27 September	Coordination Committee of the Plan Committee for Europe and the Mediterranean Basin
25 Sept. - 3 Oct.	Working Parties IV/1 (Maintenance of telephone-type, leased and special circuits), IV/2 (Measuring equipment) and IV/6 (Maintenance of sound-programme TV and videoconference circuits)
1 - 12 October	Study Group XI (Switching and Signalling)
15 - 23 October	Study Group XVII (Data Transmission over the Telephone network) and its Working Parties

Date	Meeting
17 - 26 October	TEUREM Group (Tariffs (Europe and the Mediterranean Basin))
24 Oct. - 2 Nov.	Study Group XII (Transmission Performance of Telephone Networks and Terminals) and its Working Parties
30 Oct. - 9 Nov.	Study Group I (Services) and its Working Parties
31 Oct. - 7 Nov.	Plan Committee for Asia and Oceania
5 - 9 November	Working Party V/4 (Directives and related Questions)
12 - 16 November	Study Group V (Protection against Electromagnetic Effects) and its Working Parties V/1 (Equipment resistibility and associated electrical safety problems), V/2 (Radio frequency and fast transient interference) and V/3 (Earthing and protection against lightning)
12 - 23 November	Study Group VII (Data Communications Networks) and its Working Parties
13 - 21 November	Study Group III (Tariff and Accounting Principles)
19 - 23 November	Study Group VI (Outside Plant)
26 Nov. - 7 Dec.	Working Parties of Study Group XVIII (ISDN)

Appendix to Table I

In addition to the meetings listed in Table I, a number of meetings with limited participation were convened by Chairmen or Special Rapporteurs in 1990, either in or away from Geneva. The main meetings in this category, as notified to the CCITT Secretariat, are listed below.

Date	Meeting
11 - 12 January	Group of Experts on Questions 3/VIII and 18/VIII
5 - 6 February	Group of Experts on Speech Quality (Study Group XII)
5 - 9 February	Group of Experts on Question 12/XII
5 - 9 February	Meeting of GAS 12 Authors
12 - 14 February	Sub-Working Party X/2-2
14 - 16 February	Sub-Working Party X/2-1
12 - 16 March	Group of Experts of Working Party X/1
26 - 30 March	Editing Group of Study Group XV
2 - 3 April	Group of Experts on Question 4/XVIII
2 - 6 April	Group of Experts on Question 10/XV
3 April	Group of Experts on Question 9/XV
4 - 6 April	Group of Experts on Question 9/XV + SDH-OH
24 - 26 April	Sub-Working Party X/2-1
21 - 25 May	GAS 7 coordination meeting
4 - 8 June	Ad hoc Group on Questions 21/XV and 23/XV
11 - 15 June	Group of Experts on Questions 2/IV and 23/IV
5 - 6 July	Group of Experts on Question 13/I
10 - 13 July	Group of Experts on Question 18/IV
4 - 6 September	Group of Experts on Question 25/I
11 - 13 September	Sub-Working Party X/2-2
26 - 28 September	Group of Experts on Question 5/IV
1 - 5 October	Group of Experts on Question 24/IV
5 - 9 November	Group of Experts of Working Party X/1
12 - 14 November	Group of Rapporteurs of the Ad hoc Group - Resolution 18
28 - 30 November	Group of Experts on Question 14/II
12 - 14 December	Group of Experts on Question 17/XV

Note - Participation in the limited meetings is not shown in Tables II and III.

TABLE II

Member countries represented (by Administrations and/or RPOAs) at CCITT meetings in 1990

COUNTRY (Administration or recognized private operating agency)	Study Groups and their Working Parties																Plan Committees			Regional Tariff Groups		Special Autonomous Groups			Ad Hoc Group Res. 18	TOTAL	
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XV	XVII	XVIII	AF CC	AS	EU CC	TAS	TEU- REM	GAS 7	GAS 9	GAS 12				
Algeria			X													X							X				3
Germany	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X											X	16
Saudi Arabia	X	X	X				X				X		X		X			X				X		X			10
Australia	X	X	X	X	X		X				X		X		X								X			X	11
Austria	X			X		X	X	X	X		X	X	X	X	X												11
Bahrain			X															X		X							3
Belgium	X	X	X	X		X	X			X	X		X	X	X					X							12
Benin																X					X						1
Brazil	X		X	X	X		X	X		X	X	X	X	X	X												12
Brunei Darussalam																				X							1
Bulgaria																							X				1
Burkina Faso																						X					1
Cameroon			X		X											X						X	X	X			6
Canada	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							X	X	X	X	X	19
Central African Rep.																X						X					2
Chile												X															1
China	X	X	X		X	X	X	X	X		X	X	X	X	X			X								X	15
Cyprus											X												X	X			3
Congo																X											1
Korea (Rep. of)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X									16
Côte d'Ivoire																X								X			2
Denmark	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X							16
Spain	X	X	X	X	X	X	X	X	X		X	X	X	X	X			X	X		X		X	X	X	X	20
United States	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	21
Finland	X	X	X	X	X		X	X	X	X	X		X	X	X			X									14
France	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	23
Gambia			X																								1
Ghana																							X				1
Greece	X		X	X	X	X	X	X			X	X		X	X						X		X				13
Guinea																X											1
Hungary	X	X	X	X	X		X				X	X		X	X						X				X		12
India	X	X	X	X	X		X	X	X		X		X	X	X			X		X			X	X			16

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COUNTRY (Administration or recognized private operating agency)	Study Groups and their Working Parties																Plan Committees			Regional Tariff Groups		Special Autonomous Groups			Ad Hoc Group Res. 18	TOTAL
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XV	XVII	XVIII		AF CC	AS	EU CC	TAS	TEU- REM	GAS 7	GAS 9	GAS 12		
Indonesia			X	X														X		X		X				5
Iran (Isl. Rep. of)		X	X	X		X	X	X	X	X	X		X		X			X				X	X	X		15
Ireland	X	X							X			X		X	X										X	7
Israel	X		X					X					X		X											5
Italy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X		X	X	X	X	X	X	21
Japan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X			X	X	X	X	X	22
Kenya											X						X						X			3
Kuwait																		X					X			2
Lebanon																		X			X	X	X			4
Libya																							X			1
Madagascar			X																							1
Malaysia			X															X		X						3
Mali			X														X					X	X			4
Morocco																							X			1
Mexico		X													X								X		X	4
Nepal																				X						1
Norway	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				X		X				X	18
New Zealand	X	X	X								X		X		X											6
Oman																							X			1
Pakistan			X																							1
Netherlands	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X		X					X	18
Philippines		X			X										X			X		X		X				6
Poland			X										X								X					3
Portugal	X	X	X	X			X	X	X	X	X	X	X	X	X						X					14
Qatar																		X								1
United Kingdom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X			X	X	21
Senegal																	X								X	2
Singapore		X	X						X		X		X		X			X		X						8
Sri Lanka																				X						1
Sweden	X	X	X	X	X		X		X	X	X	X	X	X	X			X		X					X	16
Switzerland	X	X	X	X	X	X	X	X		X	X	X	X	X	X						X				X	16
Czech and Slovak F.R.			X						X																	2

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TABLE III

Participation in CCITT meetings and contributions received in 1990

	Study Groups and their Working Parties																Plan Committees			Regional Tariff Groups		Special Autonomous Groups			Ad Hoc Group Res. 18
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XV	XVII	XVIII		AF CC	AS	EU CC	TAS	TEU-REM	GAS 7	GAS 9	GAS 12	
Administrations	24	24	40	22	22	13	28	20	20	14	30	20	27	21	34		13	17	5	10	11	11	24	13	16
Recognized private operating agencies	25	22	29	16	9	8	20	15	10	7	23	13	13	11	26		1	12	4	3	11	5	5	4	14
Scientific or industrial organizations	27	13	2	30	17	16	39	29	4	16	47	13	48	34	58		-	7	-	-	-	8	4	2	6
International organizations	6	2	6	1	3	-	6	3	-	-	2	2	3	1	6		-	5	-	1	-	-	-	-	-
Contributions normal	35	31	38	29	5	33	57	69	21	13	13	30	69	8	45		7	21	-	-	-	-	-	-	7
Contributions delayed	193	28	24	44	49	11	258	146	13	21	586	63	57	34	919		-	12	-	-	2	-	-	-	29
Reports	14	6	9	11	3	3	15	17	2	4	47	9	39	2	24		1	1	1	1	1	1	5	2	2

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5. TECHNICAL COOPERATION ACTIVITIES

5.1 Technical Cooperation Department (TCD)/Telecommunications Development Bureau (BDT)

5.1.1 General and activities

5.1.1.1 The year 1990 has to be considered as a transitional year. In 1989, the Nice Plenipotentiary Conference, in Articles 7 and 14 of the Constitution, created the Telecommunications Development Bureau (BDT) as a new permanent organ of the ITU, and defined its mandate. In addition, by Resolution No. 19 (Nice, 1989), the Plenipotentiary Conference resolved that the BDT should become operational, in practical terms, immediately using the staff and resources of the Technical Cooperation Department as a nucleus. Nevertheless, it was not possible to conduct the appropriate studies for the elaboration of the structures of the BDT for approval by the November 1989 extraordinary session of the Administrative Council.

Officially the BDT started its activities 1 January 1990 with the TCD staff. The in-depth study of BDT structures, as well as a detailed review and an expanded scope of the broad lines of its mandate was prepared by a BDT working group headed by the Deputy Secretary General for consideration by the 45th session of the Administrative Council in June 1990 (Document 6967).

Based on the Administrative Council's approval of this document, much effort was devoted to the preparation of the implementation of the new structures and particularly to the recruitment activities concerning the newly created posts at headquarters and in the field (see document 7107 - CA46/26).

5.1.1.2 Under these conditions and in brief, the year 1990 has to be considered as the ITU year of reorientation of its technical cooperation/assistance activities to assure the transition from the main function of technical cooperation project implementation towards the enlarged function responding to the global concept of telecommunications development.

5.1.1.3 Very careful attention was given to staff management, particularly for their redeployment within the new structure. Close attention continued to be paid to improving the management and administrative procedures of the TCD/BDT. Continuous efforts were made to ensure coordination and exchange of information with the ITU (Technical Cooperation) Area Representatives and Regional Officers in Human Resources Management and Development. During the last quarter of 1990 a large number of BDT staff (at headquarters and in the field) were involved in four action groups to study and review some specific topics of major interest for the BDT activities.

The study of a computerised Management Information System for the project implementation status (personnel, financing, equipment purchases) made very slow progress in 1990. By the end of the year, the Computer Department started an in-depth analysis of the needs in order to determine the optimal way in which the computerization of the BDT could be accomplished as quickly as possible.

5.1.1.4 The 1990 level of funding for projects implemented (including UNDP, cost-sharing and trust funds) increased slightly by 0.4 million US\$ over the previous year to 32.8 million US\$. The breakdown by funding sources shows a stable share of 83.8% for UNDP (including cost-sharing) projects, 13.3% for trust funds and 2.9% for associate experts.

5.1.1.5 Technical cooperation projects can be regrouped into three main streams of activities as presented below and illustrated by some typical examples in each region :

A. Development of regional telecommunications networks

Africa

- RAF/87/011 PANAFTEL - Operation and extension
- RAF/87/085 PANAFTEL - Rehabilitation and maintenance
- RAF/89/017 RASCOM - Feasibility Study of the Regional African Satellite Communication System

Asia and the Pacific

- RAS/86/121 - Networking of Test and Development Centres
- RAS/86/178 - Regional Telecommunications Planning
- RAS/86/123 - Development of Maritime Radiocommunications
- RAS/86/186 - Cellular Radio Telephone Systems Application

Europe and the Middle East

- RAB/86/028 TELDEV - Coordination of telecommunication development in IDCs in the Arab region and Ethiopia
- RER/87/025 EUROTTELDEV - European Telecommunications Development II
- RAB/89/001 MODARABTEL - Modern Arab Telecommunications Development

B. Strengthening of national telecommunications technical and administrative services

Africa

- Preparation of telecommunications development plans (Master Plans) in Mali, Cape Verde, Sao-Tome and Principe and Mozambique
- Feasibility study on the manufacture of telecommunications equipment in Nigeria
- Feasibility study on cellular radio systems in Ghana
- Economic studies of the Gambia Telecommunications Company - GAMTEL
- Acceptance test for a Standard A Earth Station in Burkina Faso
- Establishing a test and development centre in Kenya
- Planning study of a national TV network in Rwanda
- Setting up a test, repair and maintenance centre in Somalia
- Setting up an HF radio network in Chad

Latin America

- National Telecommunications Plan and Development of Rural Telecommunications in El Salvador
- Planning structures and introduction of computerized planning methods in Haiti
- National telecommunication network optimization in Chili
- Hazard mitigation for telecommunications systems in the Caribbean region
- Telecommunication Master Plan in Bolivia
- Telecommunication Research Centre in Brazil
- Management of the radio spectrum in Bolivia and Columbia
- Improvement of management within HONDUTEL, Honduras

Asia and the Pacific

- Preparation of a telecommunication development plan in the Kingdom of Bhutan
- Telecommunication Research Centre in India
- Electronics and Telecommunications Research Institute (ETRI) in the Republic of Korea
- Telecommunications rehabilitation and management in the Lao People's Democratic Republic
- Establishment of a typhoon-proof pilot radio trunk system in Vietnam
- Various accounting, traffic, commercial and management assistance for the countries of the South Pacific region

Europe and the Middle East

- Microwave link final acceptance and Telecommunication Applied Research Centre in Albania
- Research on new telecommunication systems in Bulgaria
- Programme of introduction of a Management Information System (MIS) in Kuwait
- Advisory services to the Ministry of Information and the Ministry of PTT in Saudi Arabia
- Radio and TV Broadcasting Coverage Study and Network Planning in the former Yemen Arab Republic

C. Development of human resources for telecommunications

Africa

- The African Advanced Level Telecommunications Institute (AFRALTI) in Nairobi, Kenya
- The Higher Multinational School for Telecommunications (ESMT) in Dakar, Senegal
- Identification of the promoting/constraining factors in human resources development (inter agency project RAF/89/023)

Asia and the Pacific

- Development of telecommunications management training through the intercountry project RAS/89/054
- Strengthening of telecommunications training in Myanmar, India, Sri Lanka and Bangladesh

Europe and the Middle East

- Enhancement of telecommunications training in Syria and the Yemen Arab Republic
- Development of policies for training and human resources in Hungary

The breakdown into the above three main categories of project is around 39%, 37% and 24% respectively of the total programme value. The broadcasting sector is in a marginal situation with a share of only 2% of the delivery programme. Another interesting feature is the repartition of project delivery between national and regional programmes which shows a ratio of 61/39.

The trend towards shorter-term expert missions and the demand for high technology expertise and high-level advice have been confirmed during the year under review. The average length of an expert mission (associate expert

missions not included; missions by ITU specialists and special missions for LDCs included) during 1990 was 2.7 months as compared with 2.93 for 1989. Missions are often as short as one week in case of seminars, highly specialised consultancy services for research centres, etc. Long-term missions (12 months or longer) are now the exception. The shortening of the duration of expert missions regularly coupled with requests at very short notice puts a great deal of pressure on the ITU recruitment service and the partner Administrations which provide expertise.

The total number of fellowships implemented shows a slight increase of 5% from 1218 to 1279 in comparison with 1989. There is a large increase of 18% for group training fellowships and a decrease of 13% in individual fellowships. The repartition by region is 39% for Africa, 11% for Americas, 25% for Asia and the Pacific and 25% for Europe and the Middle East. Due to the increase in the ITU fellowships budget, it is worth mentioning the organisation of four ITU seminars as a special measure for the Africa region during the year of its Regional Telecommunication Development Conference.

The Equipment Procurement Service has implemented a programme of US \$ 8 million which represents a decrease of about 20% over the previous year. The activities were mainly concentrated on the Americas and Africa regions (71% of total). As in previous years, it is worth emphasizing the time-consuming activities involved in purchasing a high number of low-price components and, in some fields such as informatics, the difficulties of choice and in negotiations due to the lack of standardisation. In addition, the Service managed the administrative and financial implementation of 31 projects wholly or partially subcontracted, and coordinated the preparation of 16 contracts for new subcontract activities.

5.1.1.6 To respond to member countries' requests, the specialists of the Group of Engineers undertook 31 missions, complemented by 39 short-term missions of external experts. Their average length was around two weeks; they covered a large number of issues, the main ones being network planning and extension (27%), sound and TV broadcasting (20%), space communications (10%), cellular radio systems (7%).

In addition, within the ITU special assistance budget for LDCs and at the countries' request, 35 missions were organised with an average duration of one month.

The main streams of activities of the staff of the Training Division, including Regional Experts in Human Resources Management and Development (HRM/HRD) and Associate Experts, were training standards for course development, training centre management, computer-based training development and general management improvement plans. Overall, 86 missions were carried out for the organisation of training workshops and seminars (including contributions as lecturers) and to provide follow-up support to various activities in HRM/HRD. The computerized databases of courses available through the International Sharing System (ISS) and of training opportunities, were continuously updated throughout the year and reached a total of 1,227 and 501 courses respectively.

5.1.1.7 The Special Voluntary Programme negotiated 13 contributions, either in cash or in kind, for a total of US \$ 3.24 million. It is worth noting in particular :

- the agreement of the Canadian International Development Agency (CIDA) to continue funding the services of the telecommunications adviser to the Southern African Transport and Communications Commission (SATCC) for an additional two-year period;

- the continuation of the financing by the Swiss Government (Direction de la Coopération pour le développement et de l'Aide humanitaire - DDA) of the telecommunications training project in Zimbabwe for its final phase;
- the implementation of the administrative agreement with the Finnish International Development Agency (FINNIDA) to provide refurbished terminal equipment to several countries;
- the donation by the Norwegian Telecommunications Administration (NTA) of four stand-alone mobile telephone exchanges (capacity of 1,000 lines) to the Islamic Republic of Comoros, the Democratic People's Republic of Korea, Malawi and Vietnam;
- the donation by the Italian National Telephone Company (SIP) of brand new terminal equipment as a contribution to the restoration of the Romanian telecommunication network;
- the agreement of the Swedish International Development Agency (SIDA) to finance through ITU the services of a specialist for strengthening the coordination unit of the "Telecomunicações de Moçambique" (TDM);
- the contribution of US \$ 20,000 by the Government of the Netherlands to the ITU Special Fund for Technical Cooperation;
- the contribution of the USA, Finland and France to the delivery of four regional seminars in Africa.

5.1.1.8 A large number (67) of seminars, workshops and coordination meetings were held in 1990 in 40 different places; each of them benefitting partly or totally from fellowships coming from different sources (mainly UNDP and ITU). These familiarised managers, engineers and technicians from developing countries with the new technology and the new management orientation and provided a useful tool for coordination of regional/sub-regional development activities.

5.1.1.9 During 1990, the Evaluation Officer undertook missions to Burkina Faso, Honduras, Mali, Niger, Senegal and Zaire and prepared relevant reports. He also participated in the evaluation of the Centre for Telecommunications Development and contributed to the work of the United Nations Inter-Agency Working Group on Evaluation (IAWG).

5.1.1.10 1990 saw confirmation of the general trend for implementation of shorter and higher-level technical cooperation projects, the continuing and largely increasing requirements for seminars and workshops and for expert/consultant missions at very short notice, all of which maintained a permanent constraint and a heavy workload on the TCD/BDT. For budgetary reasons, the technical cooperation project management staff and the administrative support staff have been maintained at minimum levels whilst ensuring a reasonable balance between the continuous quality/efficiency of implementation and a healthy budgetary situation.

5.1.1.11 Thus, throughout 1990, TCD/BDT made every effort to fulfil its role as a partner of the UNDP in the development of the telecommunications sector. In addition to project implementation, this implied participation in various activities of the UN System, participation in meetings such as the Consultative Committee on Substantive Questions/Operational Activities (CCSQ/OPS), the Governing Council, etc., and response to requests for information. Special mention should be made here concerning the regular TCD/BDT participation in the numerous meetings on the issue of Support Cost Successor Arrangements.

5.1.2 Financing of the Technical Cooperation Department's activities

For the first time, in 1990, after the key decision of the Nice Plenipotentiary Conference in recognizing the dual complementary role of the ITU as a Specialized Agency of the UN System for telecommunications and as Executing Agency of the UNDP and similar programmes, the technical assistance/cooperation activities were performed by the Telecommunications Development Bureau (BDT) within :

- a reinforced ordinary budget - Section 7 - SF 15,233,600
- a technical cooperation special accounts budget (Section 21) strictly related to the costs of the implementation, management, supervision, and backstopping of technical projects in the field.

In spite of a sustained effort by all the BDT staff during 1990, the transitory TCD/BDT period mentioned under point 5.1.1. above does not allow full implementation of all the activities mentioned under the various items in the Section 7 budget. The implemented budget is SF 13,425,620 leaving a surplus of SF 1,807,980 (12%). The main constraints were delays in the expansion of regional presence (approval of the provisional BDT structures in June and time for recruitment procedures), and the rather long negotiation necessary to define/launch specific IDC missions and training programmes/activities.

The situation regarding the technical cooperation special accounts budget (Section 21) can be considered as good for 1990, the main reasons being a delivery programme of US \$ 32,864,712 and strict management of the manpower involved in technical cooperation project management and administrative support.

The project execution support costs were reimbursed at a level of US \$ 4,053,550 which represents an average support cost rate of 12.33% in 1990.

With some miscellaneous additional income and at an average exchange rate of 1.359 Swiss francs to one US dollar, the total income for the project support costs amounts to SF 5,813,616 which balances the expenses and leaves a benefit of SF 291,100 for 1990. For basic reference and general information it appears useful to present the 1990 situation in comparison with the reference case discussed during the Plenipotentiary Conference for a balanced situation of the technical cooperation special accounts budget :

Cases Item	Reference case Plenipotentiary	1990 Situation	Comparison
Total project delivery in US\$	30,000,000	32,864,712	+ 9.5%
Average support cost rate	12%	12.33%	+ 2.75%
Average annual exchange rate	1.50 SF/1 US\$	1.359 SF/1 US\$	- 9.4%

5.1.3 Quantitative appraisal of 1990

5.1.3.1 Technical cooperation provided by the Union through the TCD/BDT to developing countries relied mainly, as in previous years, on external resources for project implementation (complemented by assistance rendered through the funds made available in Section 7 of the ITU regular budget) :

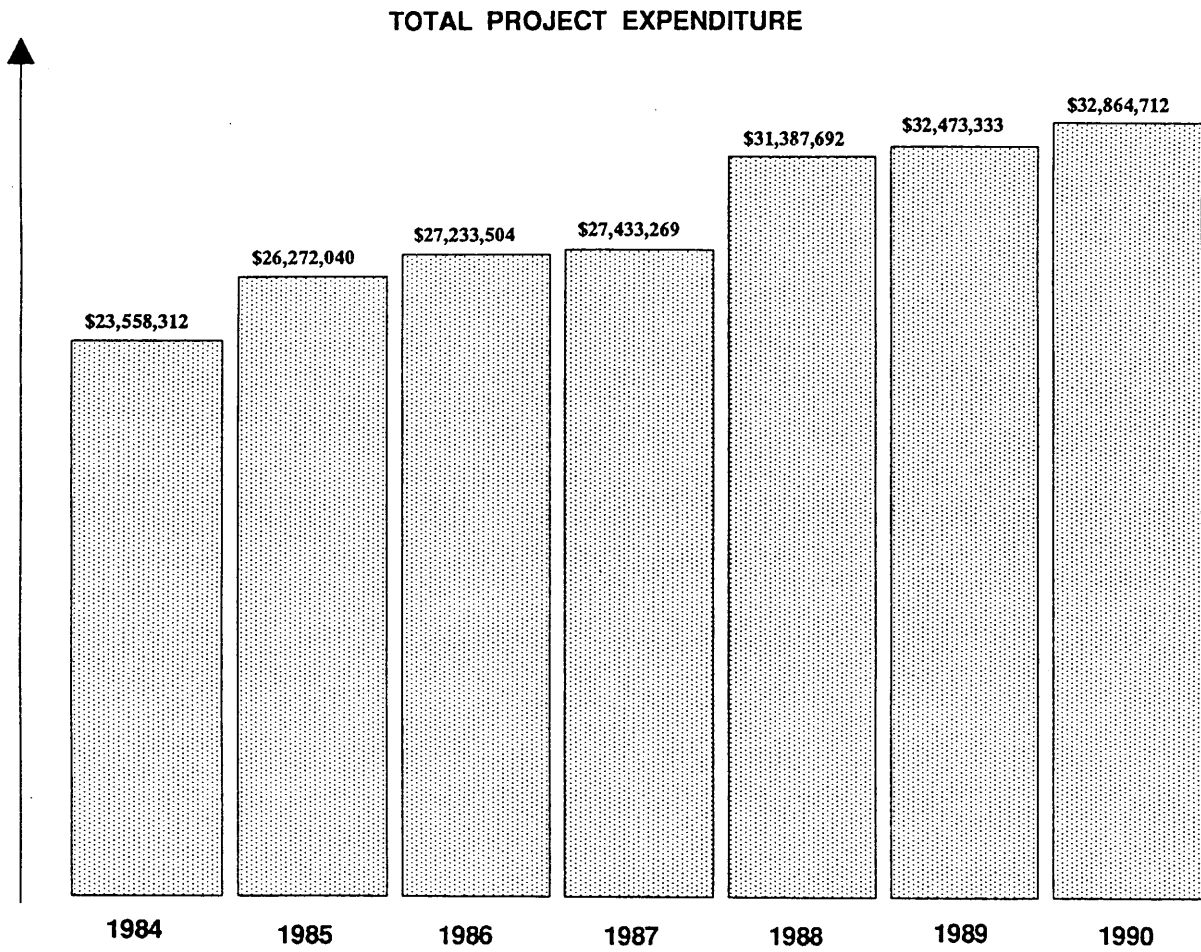
- UNDP (often with a Government cost-sharing contribution)
- Funds-in-Trust
- Associate Experts (cost of missions borne by the donor countries)
- Special Voluntary Programme (Resolution 19, Plenipotentiary Conference, Nairobi 1982).

5.1.3.2 The main features of assistance provided from all sources for field activities were :

a) Expert missions (Note 1)	628	against	582 in 1989
b) Expert man-months (projects)	1,741	against	1,649 in 1989
c) Fellowships (Note 2)	1,279	against	1,218 in 1989
d) Projects	191	against	189 in 1989
e) Equipment :			
Expenditure (US\$)	8,002,020	against	9,786,755 in 1989
Purchase Orders	805	against	936 in 1989
f) Contracts - payment in 1989 (value US\$)	4,120 074	against	4,984,077 in 1989
g) Contracts (projects)	31	against	15 in 1989
h) Total expenditure (US\$)	32,864,712	against	32,473,333 in 1989
(See table next page)			

Note 1: Including associate expert assignments, missions by ITU specialists and special missions for IDCs.

Note 2: Including participants in short-term group training (under projects and ITU budgets).



5.2 Centre for Telecommunications Development (CTD)

5.2.1 Meetings and Conferences concerning the CTD

a) Working Group on Fund Raising, 8-9 February 1990

The Working Group on Fund Raising finalized the proposal to introduce a CTD-Affiliate System - as recommended by the Plenipotentiary Conference 1989.

b) Eleventh Meeting of the Advisory Board, 13-15 March 1990

The Board reviewed the CTD's progress, field activities and financial situation, and approved the budget and plan of action for 1991. It also adopted the introduction of the Affiliate System of contributions as initially proposed by Japan to ensure a continuous and more stable flow of income to the Centre.

The Board established an ad hoc Working Group to prepare a report to the High-Level Committee (HLC) with the aim of contributing to the HLC the Board's recommendations on participation of the private sector in the development work of the ITU, drawing on the CTD's experience in that regard.

c) Ad hoc Working Group, 22 May and 15 October 1990

The ad hoc Working Group met in May and October 1990 and submitted its draft report to the Twelfth Meeting of the Advisory Board.

d) 45th session of the Administrative Council, 27 May - 7 June 1990

During the 45th session of the Administrative Council the Secretary-General proposed a limited number of changes in the CTD Advisory Board Membership which were adopted (Members leaving the Board: Messrs. Santelli/Brazil, Hansen/Denmark, Nyiredi/Hungary, Ba/Mali and Ntagazwa/Tanzania; new Members represented in the Third Board: Messrs. Vignon/Benin, Asfaw/Ethiopia, Martenson/Finland, Popiolek/Poland and Alfonzo/Venezuela).

e) Twelfth Meeting of the Advisory Board, 16-17 October 1990

The Third Advisory Board welcomed its new members and elected its Chairman (Mr. Biezen, Netherlands) and Vice-Chairman (Mr. Vignon, Benin).

The Board reviewed the CTD progress, field activities and financial reports. It was advised of the substantial drop in cash and in-kind pledges from major contributors, probably to some extent due to the structural reforms towards commercialization underway in those countries, but also to the prevailing uncertainty regarding the Centre's future. The Board noted with satisfaction that additional financial pledges had been received from developing countries.

The list of outstanding requests for short-term missions and projects had grown to 120. The utilization of in-kind contributions to satisfy such requests posed increasing difficulties.

The Board furthermore discussed in depth the draft recommendations to the HLC prepared by the ad hoc Working Group. As requested earlier by the Secretary-General, it was decided to elaborate more on the subject "Role of the Private Sector in Telecommunications Development".

Finally, the Secretary-General's proposal to evaluate the CTD including the Advisory Board by the Consultants, Booz, Allen & Hamilton was adopted.

- f) Ad hoc Working Group, 20 November 1990
High Level Committee, 3rd Session, 21 November 1990

After a preliminary meeting of the ad hoc Working Group on 20 November, the first meeting with the HLC (3) took place on 21 November 1990. A hearing session was conducted with general discussion both on the objectives, activities as well as the future of the CTD and on the report "Recommendations of the ad hoc Working Group of the CTD Advisory Board, concerning Private Sector Participation". Presentations were made by the Chairman of the Board, the Chairman of the ad hoc Working Group and the Executive Director. The Committee discussed on the merger of CTD and BDT; a consensus in principle was reached to recommend the merger to the 46th Administrative Council.

5.2.2 Report on activities

a) General

It was anticipated in the past by the Advisory Board and the CTD-Directorate that good field work of the CTD would in return facilitate the funding of the CTD. In retrospect, it may be doubted whether the above approach was appropriate.

b) Field activities

The CTD sent out two multi-destination letters to potential beneficiary countries (MD 1605 of 9 March 1987 and MD 2356 of 8 November 1989) asking them to review their needs and submit proposals for projects and short specific missions:

- a) (Summary of field activities generated by MD 1605 - see Table 1)

Despite the lack of resources, CTD has been able to implement 70% of the activities requested by potential beneficiaries (see Table 1). Furthermore, an additional 22.5% will be implemented by the end of 1991. Four requests are still pending mainly due to security reasons prevailing in the countries concerned. Thus, by the end of 1991, CTD will have satisfied 92.5% of the requests generated by MD 1605.

- b) (Summary of field activities generated by MD 2356)
(See Table 2)

In March 1991 the CTD had received 136 responses to MD 2356 (most of them were received during 1990).

c) CTD Seminars

Certain funds received by the CTD are tied to the preparation and realization of seminars.

Three such seminars are under preparation:

- a) Symposium on Restructuring of Telecom Entities (ITU/BDT/CTD) jointly with the World Bank, April 1991, Washington
- b) Seminar on Frequency Management and Monitoring (in collaboration with IFRB), May 1991, Nairobi
- c) Seminar on Optical Fibre Transmission Systems (in collaboration with the Asia Division of the BDT), May 1991, Singapore.

SUMMARY OF FIELD ACTIVITIES GENERATED BY
MD 1605 (9 March 1987)

Geographic Division	Requests received	Completed	Under implementation	Terminated and/or coordinated between BDT/CTD	Pending
Africa	36	17	3	16	
Americas	11	1	2	8	
Asia and Pacific	19	6	5	5	3
Europe/Middle East	12	7	1	3	1
Global/Regional	7	6	1		
TOTAL	85	37	12	32	4
\bar{x} 85-32 = 53 = 100%	-	70	22.5		7.5

TABLE 1

SUMMARY OF FIELD ACTIVITIES GENERATED BY
MD 2356 (8 November 1989)

Geographic Division	Requests received	Completed by 1.03.91	Under implementation	Planning to be implemented during 1991*	Terminated and/or coordinated between BDT/CTD	Pending
Africa	39	3	9	1	1	25
Americas	48	2	5	7	1	33
Asia and Pacific	25	3	2	3	3	14
Europe/Middle East	20		3	1	9	7
Global/Regional	4	1	2		1	
TOTAL	136	9	21	12	15	79
$\frac{79}{136-15} = 121 - 100\%$	-	7.5	17.3	9.9	-	65.3

* Minimum number of missions, possibly several other missions to be implemented.

TABLE 2

d) **CTD - Participation in Harare**

The CTD actively participated in the Forum, the Exhibition and the Development Conference. A "round table" discussion with numerous participants representing business firms was conducted in order to improve relationships with the private sector. New proposals were received, for instance, on creating Special Joint Working Groups.

e) **Other activities**

Close links have been established with WHO (Joint Project "Video Conference Service", Obninsk, USSR) and UNIDO (local production of telecom equipment). A Handbook on "Financial sources for Telecom Development" was prepared. A study on "Restructuring Telecom Entities" was conducted. Furthermore, a Distance Learning Training Course on the subject of "Project Management" designed in the United States of America was performed with 16 developing countries in Africa, Asia and Latin America and sponsored by several US Corporations and institutions. A software package for the administration of the subscriber network was made available for Nepal in close collaboration with TCIL, India.

f) **Data Base**

The Data Base of the CTD will be incorporated in the new comprehensive Data Base of the ITU.

5.2.3 Financial situation of the CTD

(Status on 31 January 1991)

Contributions and pledges for 1990/1991

A list of contributions and pledges by country is shown in Table 3. By the end of January 1991 95% of the cash pledged for 1990 and 11% for 1991 had been transferred.

The CTD-Affiliate System was introduced in 1990. A number of new countries and organizations (such as Fiji, Portugal, Solomon Islands, Turkey, Zimbabwe and the EEC) joined the system. The result in total, however, is modest as shown in Table 4.

There is no doubt that the prolonged discussions (since 1988) about a merger of the CTD and the BDT had a confusing and adverse effect on the contributors, the result of which is that the resources pledged for 1991 are only 37% of the previous year 1990. In addition, the utilization of in-kind contributions has become more difficult and requires considerable effort.

It is expected and broadly in line with past experience that pledged contributions from previous years still outstanding (for 1989: 390,000 Swiss francs, and for 1990: 99,000 Swiss francs) and for the current year 1991 will be honoured.

Commitments for expenses are only made if and when the required resources are available.

CTD - CONTRIBUTIONS PLEDGED PER COUNTRY as at 31.1.1991 (in Thousand Swiss Francs)

COUNTRY	1986	1987			1988			1989				1990				1991				By
	A	A	C	D	A	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
Australia					100															P
Austria					46.3			41.9					42				42			PI
Belgium					100			100			7.5									P
Bulgaria						80				120					85					P
Canada	114	99.1			112.1	45				30	60				35					PGI
Denmark	25	50			50			50				50				10	50			PI
F.R. of Germany *	160	205	59	181	325.6	442	470	342.4		307.5	212.5	140		320	509		30	250	260	PGI
Finland **	17	50.5			52.8			57.2				105.2				20	40			PI
Fiji												2					2			I
France	50	100			149.5			100				145.4		45	10					PI
German D.R.						50				75				75						G
Hungary	100	72			70	26														I
India	94				34.2															IC
Indonesia		46			46			54.3				48					46			P
Italy ***		200							330								1			GI
Japan	331	287	814	266	335.8	645	435	483.9		483	597	423.5		587	493				200	PGI
Malawi												10								P
Malta						75				50				50						P
Netherlands	147	146			147	105	45	153.3		135	15	170.8			20		170		50	PI
New Zealand		60			60				60											P
Norway					50			50				50					50			P
P.R. of China	40																			P
Portugal												10					15			GI
R. of Korea														180	50					P
Saudi Arabia		39																		P
Singapore									45					45						P
Solomon												1					1			I
Spain															45					P
Sri Lanka	111	116			115.6			115.6												P
Sweden	71	82.7			88.1			106				66.2		15		61.2			15	PI
Switzerland	242	239			226			228.8				198	42				240			PGIC
Tunisia													15	60						P
Turkey												6					6			I
USSR		118			116	240	60	132			217.5	132.5		180	120	2	132	185	115	PI
United Kingdom **	140	122			131.9		55	136.2		132.5	7.5	61.9								P
United States	166	59			360.5			459.8				300			399					PGI
Zimbabwe												1								I
Global/Regional																				
- INMARSAT															8					I
- ASEASAT														15						I
- INTELSAT ****																				I
- CCE *****																10				G
TOTAL I	1808	2089.3	873	447	2717.4	1708	1065	2611.4	390	1378	1117	1921.5	99	1572	1774	103.2	825	435	640	
TOTAL II	1808	2089.3	1320		2717.4	2773		3001.4		2495		2020.5		3346		928.2		1075		
GRAND TOTAL	1808	3409.3			5490.4			5496.4				5366.5				2003.2				

* = The amount in column A for 1989 includes 114936 SFr for the Seminar at Montevideo

= The amount in column A for 1990 includes 30000 SFr transferred in 1989

** = Column C for 1990 indicates possible additional support

*** = The amount in column B for 1989 was again confirmed in May 1990

**** = Column C for 1990 and 1991 indicates considerable support

***** = Commission des Communautés Européennes

A = Cash received
B = Cash pledged,
not yet received
C = Pledged in kind,
not yet utilized
D = Pledged in kind,
utilized/committed

P = PTT/Operator
G = Government
I = Industry
C = Consultant

TABLE 3

CTD - CONTRIBUTION TABLE

TABLE 4

Conventional Contribution System versus Affiliate System

Status as at 31.1.1991 (In Thousand Swiss Francs)

COUNTRY	1989		1990		1990		1991		1991		By
	Conventional		Conventional		Affiliate		Conventional		Affiliate		
	A	B	A	B	A	B	A	B	A	B	
Austria	41.9			42				42			PI
Belgium	100										P
Denmark	50		50					50	10		PI
F.R. of Germany *	342.4		30		110					30	PGI
Finland	57.2		105.2						20	40	PI
Fiji					2					2	I
France	100		145.4								PI
Indonesia	54.3		48					46			P
Italy **		330								1	GI
Japan	483.9		62.1		361.4						PGI
Malawi			10								P
Netherlands	153.3		170.8					150		20	PI
New Zealand		60									P
Norway	50		50					50			P
Portugal					10					15	GI
Solomon					1					1	I
Sri Lanka	115.6										P
Sweden	106		66.2				61.2				PI
Switzerland	228.8		198	42				240			PGIC
Tunisia				15							P
Turkey					6					6	I
USSR	132		132.5					132	2		PI
United Kingdom	136.2		61.9								P
United States	459.8		300								PGI
Zimbabwe					1						I
Global/Regional CCE ***									10		G
TOTAL I	2611.4	390	1430.1	99	491.4	0	61.2	710	42	115	
TOTAL II	3001.4		1529.1		491.4		771.2		157		
GRAND TOTAL	3001.4		2020.5				928.2				

* = The amount in column A for 1989 includes 114936 SFr for the Seminar at Montevideo

= The amount in column A for 1990 (conventional) was transferred in 1989

** = The amount in column B for 1989 was again confirmed in May 1990

*** = Commission des Communautés Europeennes

A = Cash received

B = Cash pledged, not yet received

P = PTT/Operator

G = Government

I = Industry

C = Consultant

6. ADMINISTRATION OF THE UNION

6.1 Staff matters

6.1.1 The manning table in the 1990 budget comprised 798 posts, 715 of them permanent. The following changes occurred during the year among staff with permanent or fixed-term contracts : 31 retirements, 13 resignations, 1 early retirement on disability pension and 1 death. Fourteen fixed-term contracts were not renewed. As on 31 December 1990, 27 officials were working part-time.

6.1.2 The following tables (Tables 1 to 4) show the staff situation as of 31 December 1990. Where applicable the figures for the preceding year are shown in parentheses for comparison purposes.

6.1.3 In the case of short-term contracts (Table 2) it should be explained that the size of the Union staff is such that it must be supplemented or reinforced when the volume of work increases temporarily, when regular staff is not available or when jobs have to be done for which the corresponding posts do not exist.

1) Conferences and meetings obviously account for the major proportion of temporary staff, whether they are language staff, staff to carry out all the operations connected with document production and distribution, simultaneous interpretation equipment operators, and so on. 2) A temporary increase in urgent work - for example, a service document which has to be published by a certain date must be absorbed by short-term staff. 3) Sometimes it is more economical to supplement frequently, but on a short-term basis, the staff of a section working in shifts rather than to increase the permanent staff or to incur the high cost of overtime. 4) While the duties of staff who are temporarily absent (on prolonged sick or maternity leave, for example) are usually shared by colleagues, temporary assistance is sometimes essential. 5) When a permanent post falls vacant, it may be necessary to recruit someone for a short period until the post is filled.

6.1.4 The principle of geographical distribution applies to elected officials and staff in the following categories : senior counsellors, professional category (excluding language staff), and technical posts in grades G.7, G.6 and G.5. (the principle does not apply to other posts in the General Service category.) The geographical distribution at the end of 1990 is shown in Table 4 and concerns staff employed by ITU except for language staff, technical cooperation experts and short-term staff.

TABLE 1

**Distribution of staff between organs of the Union
(excluding staff on short-term contracts and project personnel)**

Organ	Elected Officials	Number of contracts		Total
		Permanent	Fixed-term	
General Secretariat	2	408 (427)	51 (114)	461 (543)
IFRB	5	99 (100)	13 (29)	117 (134)
CCITT	1	38 (40)	1 (-)	40 (41)
CCIR	1	20 (22)	3 (4)	24 (27)
BDT*	-	33	60	93
Total	9	598 (589)	128 (147)	735 (745)

* The Telecommunications Development Bureau (BDT), new specialized organ of the Union dealing with technical cooperation, was created as from 1st January 1990. A phased devolution of staff from the Headquarters regional divisions to the various Regional and/or Area Offices is in progress. (As of 31.12.1990 the 93 contracts correspond to 83 at headquarters and 10 in the field.)

TABLE 2

Staff on short-term contracts

	Number of contracts		Total number of working days	
Interpreters	493	(644)	3,793.5	(9,403)
Engineers, engineer-editors	7	(13)	597	(973)
Programmer-analysts, Programmers	2	(3)	311	(836)
Translator/revisers, precis-writers	83	(202)	4,425	(7,786)
Administrative officers/associate administrative officers, research assistants, documentalists, editors ..	9	(12)	854	(1,738)
Text composition : proof-readers, text mounters, page-setting operators, data capture operators and encoders	15	(29)	2,168	(3,893)
Draughtsmen/designers, photographers ...	2	(11)	299	(897.5)
Secretaries, office assistants, book-keepers, assistants, editorial assistants, proof-readers, heads of teams, checkers	96	(285)	10,070.5	(16,483)
Shorthand-typists, typists, clerks	109	(215)	11,453	(18,756)
Telephone operators, telex operators ...	16	(27)	437.5	(592.5)
Computer assistants	6	(15)	760	(2,390)
Offset conductors, duplicating machine/assembly operators, trimmers	6	(25)	330	(2,095)
Simultaneous interpretation equipment operators	33	(27)	299	(226)
Dispatching staff, other documents staff, security guards, storemen, handymen	98	(121)	5,617.5	(6,153)
TOTAL	975	(1,629)	41,415	(72,222)

(The figures for 1990 are shown in parentheses in columns 2 and 4)

TABLE 3

**Distribution of staff according to grade
(excluding staff on short-term contracts and project personnel)**

Grade	General Secretariat		IFRB		CCITT		CCIR		BDT		Total	
Elected Official	2		5		1		1		-		9	
	Perm.	FT	Perm.	FT	Perm.	FT	Perm.	FT	Perm.	FT	Perm.	FT
D.1	9	2	3	-	2	-	3	-	-	1	17	3
P.5	18	4	9	-	6	-	3	2	2	25	38	31
P.4	34	6	24	8	4	-	2	-	3	13	67	27
P.3	40	3	5	1	2	-	1	-	3	-	51	4
P.2	15	2	8	1	2	-	-	-	2	-	27	3
P.1	-	-	-	-	-	-	-	-	-	-	-	-
G.7	32	3	8	-	2	-	3	-	11	2	56	5
G.6	63	7	19	-	16	-	4	1	7	4	109	12
G.5	86	8	13	2	2	1	4	-	4	14	109	25
G.4	50	6	9	1	2	-	-	-	-	1	61	8
G.3	48	10	1	-	-	-	-	-	1	-	50	10
G.2	10	-	-	-	-	-	-	-	-	-	10	-
G.1	3	-	-	-	-	-	-	-	-	-	3	-
	408	51	99	13	38	1	20	3	33	60	598	128
TOTAL	461		117		40		24		96		735	

(Perm. = Permanent; FT = Fixed-term)

Note : The above table shows the grades of staff members, those receiving a special post allowance granted upon a recommendation by the Appointment and Promotion Board being shown in the grade for which they receive the allowance.

TABLE 4

Geographical distribution of staff on 31 December 1990
(excluding project personnel)

Country	Elected Officials	D.1	P.5	P.4	P.3	P.2	P.1	C.7	C.6	C.5	Total
Region A - The Americas (32 countries)											
Argentina		- (1)			1				1		1 (2)
Brazil		1	1	4 (3)	2 (3)	1					8 (7)
Canada	1		4 (3)	2 (3)	2 (1)						9 (8)
Chile						1					1
Colombia				1		1					2
Costa Rica			2						1		2
United States	1	1	4	7 (8)	3 (4)						16 (18)
Haiti			1								1
Jamaica					1						1
Mexico			1								1
Peru					- (1)						- (1)
Uruguay			2 (1)								2 (1)
Venezuela				- (1)							- (1)
Region B - Western Europe (25 countries)											
Germany (Fed. Rep. of)	1	2	3 (4)	4 (2)	2 (3)						12
Austria			1	1		1					2
Belgium			1	2 (3)							3 (4)
Cyprus		1									1
Spain			1	4 (3)	- (2)				1		6 (7)
Finland	1		1	1							3
France		3	5 (7)	5 (4)	6 (8)	6					25 (28)
Greece				1							1
Ireland						1					1
Italy			4	1	1						6
Netherlands		1	1								2
Norway			1								1
Portugal				1	1 (-)	- (1)					2
United Kingdom	1	- (1)	2	3	2	4					12 (13)
Sweden			3	2 (3)	3 (2)						8
Switzerland		- (1)	3 (5)	6 (7)	7 (9)	7	- (1)		1		24 (31)
Turkey			1	1							2
Region C - Eastern Europe and Northern Asia (11 countries)											
Bulgaria			1	2							3
Hungary		1 (-)	- (1)	1	- (1)	1					3 (4)
Poland		1		1							2
Ukraine				1							1
U.S.S.R.	1	1 (2)	2 (1)	5 (6)							9 (10)
Yugoslavia			2 (1)	- (1)							2
Region D - Africa (31 countries)											
Algeria	1					1					2
Benin				1							1
Burkina Faso			1								1
Cameroon	1										1
Congo			1								1
Côte d'Ivoire			1								1
Egypt		- (1)	1								1 (2)
Ethiopia		1									1
Ghana			1		- (1)						1 (2)
Guinea				1							1
Kenya		- (1)		1							1 (2)
Liberia						1					1
Mali				1							1
Mauritius					1	1					2
Morocco		1 (-)	1 (2)		1	1					4
Uganda				1							1
Senegal				1							1
Sierra Leone				1							1
Sudan				1 (-)							1 (-)
Tanzania					1						1
Tunisia		1		1							2
Zimbabwe				1							1
Region E - Asia and Australasia (45 countries)											
Afghanistan		1									1
Australia			3		3						6
Bangladesh		- (1)									- (1)
China		1		1	1	1					4
Korea (Rep. of)				1	1						2
India		2 (3)	1	3	2	1					9 (10)
Indonesia				1							1
Iran			1	2							3
Iraq				1							1
Japan	1		1 (2)	1 (*2)	*2 (1)						5 (6)
Pakistan			2		1 (-)	- (1)					3
Singapore			1								1
Sri Lanka				1							1
Syria			1								1
Viet-Nam						1					1
TOTAL	9	19(25)	62(66)	77(81)	43(49)	29(31)	- (1)		3		242(265)

* 1 post paid on funds-in-trust

(Wherever changes have taken place, the figure for 1989 appears in parentheses.)

6.2 Financial questions

6.2.1 In accordance with Article 56, No. 305 of the International Telecommunication Convention (Nairobi, 1982) and Article 52 of the Union's Financial Regulations, the Secretary-General prepares each year for submission to the Administrative Council a financial operating report containing all requisite information on financial administration and the recapitulatory accounts for the financial year. After examination and approval by the Administrative Council, this report is sent to the Members of the Union. Nevertheless, in order to give an idea of both the credits allocated to the various Union activities and the accounts for the past financial year, the budget and accounts for 1990 are presented in Annex 2 to this report.

6.2.2 In accordance with Article 15 of the Nairobi Convention and Articles 2 and 6 of the Union's Financial Regulations, the budget of the Union comprises the costs of the Administrative Council and the permanent organs of the Union, Plenipotentiary Conferences and world administrative conferences, and technical cooperation and assistance provided to the developing countries.

6.2.3 The budget of the Union is supplemented by two further budgets, i.e. the Technical Cooperation Special Accounts budget covering the administrative and operational costs of technical cooperation projects, and the Supplementary Publications Budget.

6.2.4 Decision No. 1, Nice 1989, lays down the limits within which the Administrative Council is authorized to draw up the annual budgets of the Union. The limits for 1990 were the following:

88,100,000 Swiss francs for the expenses of the Administrative Council, the General Secretariat, the IFRB and the CCIs;

15,000,000 Swiss francs for the expenses of the Telecommunications Development Bureau;

3,000,000 Swiss francs in respect of additional working languages;

1,140,000 Swiss francs for WARC HFBC-83 preparatory work;

260,000 Swiss francs for WARC MOB-87 post-conference work;

1,600,000 Swiss francs for CCIR meetings;

5,800,000 Swiss francs for CCITT meetings;

100,000 Swiss francs for seminars.

6.2.5 Decision No. 1 also provides that the Administrative Council may adjust the limits on expenditure to take account of changes in costs under the following items:

- salary scales, pension contributions and allowances, including post adjustments, established by the United Nations for application to its staff employed in Geneva;
- the exchange rate between the Swiss franc and the US dollar insofar as this affects the staff costs of those on United Nations scales;
- the purchasing power of the Swiss franc in relation to non-staff items of expenditure.

6.2.6 In addition, the Administrative Council may authorize expenditure in excess of the aforesaid limits - with the exception of the limits on recurrent expenses - if the excess can be compensated by sums within the expenditure limits accrued from previous years or charged to the following year.

6.2.7 Moreover, if the above-mentioned credits which may be used by the Administrative Council are insufficient to finance unforeseen but urgent activities, the Council may exceed the credits of the ceiling laid down by the Plenipotentiary Conference by less than 1%.

6.2.8 Having regard to Decision No. 1, Nice 1989, the Administrative Council at its 44th session (1989), by Resolution No. 988, approved budgets for 1990 amounting to:

- 88,100,000 Swiss francs for the Administrative Council, General Secretariat, IFRB and CCIs;
- 15,000,000 Swiss francs for technical cooperation and assistance;
- 3,000,000 Swiss francs for the additional working languages;
- 8,900,000 Swiss francs for world administrative conferences, CCI meetings and seminars;
- 3,100,000 Swiss francs for payment into the ITU Reserve Account;
- 494,000 Swiss francs for regional administrative conferences;
- 15,000 Swiss francs for expenditure covered by the Renewal Fund for simultaneous interpretation and other sound reproduction equipment;
- 5,962,000 Swiss francs for technical cooperation administrative and execution costs;
- 10,616,000 Swiss francs for the supplementary publications budget.

6.2.9 In Resolution No. 988, the Administrative Council also fixed the amount of the contributory unit for Members at 265,000 Swiss francs on the basis of the class of contribution chosen by Members under Nos. 111 and 113 of the Nairobi Convention, 1982, i.e. on the basis of a total of 400 $\frac{3}{4}$ units. The Resolution further fixed at 53,000 Swiss francs the annual value for 1990 of the contributory unit for recognized private operating agencies, scientific or industrial organizations and non-exempt international organizations for defrayal of the cost of CCIR and CCITT meetings, in accordance with Nos. 618 and 622 of the Nairobi Convention.

6.2.10 In accordance with Resolution No. 647, the Secretary-General was obliged to alter the budgets approved by the Administrative Council as follows:

- increase of 2,603,800 Swiss francs for the ordinary budget;
- increase of 7,300 Swiss francs for the budget of regional conferences;
- increase of 235,300 Swiss francs for the technical cooperation administrative costs budget;
- increase of 29,600 Swiss francs for the overheads in the supplementary publications budget.

Furthermore, the conference budget was decreased by 84,000 Swiss francs by the decision of the plenary session of the African conference.

6.2.11 The budgets of the Union for 1990 finally amounted to:

- 120,703,800 Swiss francs for the ordinary budget;
- 417,300 Swiss francs for the budget of regional conferences;
- 15,000 Swiss francs for the budget of miscellaneous expenditure;
- 6,197,300 Swiss francs for the technical cooperation administrative costs budget;
- 10,645,600 Swiss francs for the supplementary publications budget.

Classification of the Members of the Union for
the apportionment of expenditure in 1989

6.2.12 At the end of 1989, the Union had 166 Members contributing to defraying the expenses of the Union on the basis of 393 1/8 units. It should be noted that Namibia, which has been a Member of the Union since 25 January 1984, was exempted from any financial contribution up to and including 1990.

6.2.13 As Spain had increased their contribution by 5 units and the Republic of Korea by 4 units the ITU had 166 Members contributing to the Union's expenses in 1990 on the basis of 402 1/8 units.

Cash resources

6.2.14 In 1990, as in the previous year, it was not necessary to resort to advances from the Government of the Swiss Confederation, available resources being sufficient to meet current expenditure.

6.2.15 It should also be noted that during most of the year surplus amounts were placed in short term investments, yielding interest of 3,521,560.14 Swiss francs.

Arrears

6.2.16 The total amounts due for more than one year on 31 December 1988, 1989 and 1990 were the following:

31 December 1988	19,160,940.30 Swiss francs
31 December 1989	16,150,615.55 Swiss francs
31 December 1990	19,887,076.00 Swiss francs

Sums owed for more than one year, therefore, increased again between 31 December 1989 and 31 December 1990 after having diminished during the previous year.

6.2.17 The amounts in the special arrears account established under Resolution No. 10 of the Malaga-Torremolinos Plenipotentiary Conference (1973) and not yet settled on 31 December 1990 total 2,768,972.62 Swiss francs. Since the 1973 Plenipotentiary Conference, the special arrears account, which initially stood at 6,560,016.18 Swiss francs, has thus been reduced as a result of the payment by seven Members of 3,791,043.56 Swiss francs.

At 31 December 1990, of the nine countries which had had outstanding amounts transferred to the special arrears account, only the following countries still owe certain sums:

Bolivia
Dominican Republic

6.2.18 The Plenipotentiary Conference (Nairobi, 1982) also decided to transfer to a special arrears account certain outstanding sums amounting to 1,463,281.65 Swiss francs due for contributions from four Member Countries of the Union.

By the end of the 1990 financial year, an outstanding balance of 1,152,711.50 Swiss francs was owed by the following countries:

Guatemala (Republic of)
Mauritania
Chad (Republic of)

6.2.19 The Plenipotentiary Conference (Nice, 1989) also transferred to a special arrears account certain outstanding sums amounting to 2,408,468.85 Swiss francs representing sums due by four Member countries.

By the end of the 1990 financial year, no payment had been received in this respect.

6.2.20 It is recalled that the transfer of amounts due to the special arrears account does not release the countries concerned from the obligation to settle their arrears. However, the amounts in question are not taken into account for the purposes of No. 117 of the Convention relating to Members' right to vote.

6.2.21 Outstanding arrears, including the amounts owing in special arrears accounts, totalled 26,217,228.97 Swiss francs at 31 December 1990, i.e. 22% of the ordinary budget for 1990.

7. RELATIONS WITH THE UNITED NATIONS AND OTHER INTERNATIONAL ORGANIZATIONS

7.1 *The United Nations*

7.1.1 In 1990, the International Telecommunication Union continued its cooperation with the United Nations within the framework of the International Telecommunication Convention and the Agreement between the United Nations and the Union.

7.1.2 The Union was represented at the first and second regular sessions of the Administrative Committee on Coordination (ACC) and at the meetings of its subsidiary bodies. The ITU also participated in the second regular session of the Economic and Social Council (ECOSOC) and in the twenty-fifth series of joint meetings of the Committee for Programme and Co-ordination (CPC) and the Administrative Committee on Coordination (ACC).

7.1.3 Special mention should be made of ITU participation in the meetings of the Committee and Sub-Committees on the Peaceful Uses of Outer Space as well as in meetings connected with the United Nations Space Applications Programme.

7.1.4 Cooperation with the United Nations Development Programme (UNDP) is discussed in detail in section 5, which deals with the ITU's technical cooperation activities falling within the scope of various regional entities or the Economic Commissions of ECOSOC.

7.2 *United Nations specialized agencies*

7.2.1 The Union participated in the work of the eleventh session of the International Programme for the Development of Communication (IPDC) Intergovernmental Council and the second Inter-agency meeting of the coordinators of the World Decade for Cultural Development.

7.2.2 Cooperation continued with other UN specialized agencies, in particular the International Maritime Organization (IMO), the International Civil Aviation Organization (ICAO), the World Meteorological Organization (WMO) and the Universal Postal Union (UPU), on matters of mutual interest.

7.3 *Other international and regional organizations*

The ITU maintained and developed fruitful relations with a number of international and regional organizations, the diversity of which is illustrated by the following non-exhaustive list:

International

EUTELSAT	-	European Telecommunications Satellite Organization
IEC	-	Electrotechnical Commission
ISO	-	Organization for Standardization
INMARSAT	-	Maritime Satellite Organization
INTERSPUTNIK	-	Space Telecommunication Organization
INTELSAT	-	International Telecommunications Satellite Organization
CISPR	-	Special Committee on Radio Interference
COSPAR	-	Committee on Space Research
OECD	-	Organization for Economic Cooperation and Development
URSI	-	Union of Radio Science

Regional

ABU	-	Asia-Pacific Broadcasting Union
ASBU	-	Arab States Broadcasting Union
CITEL	-	Inter-American Telecommunications Conference
CEPT	-	European Conference of Postal and Telecommunications Administrations
COMTELCA	-	Technical Commission for Telecommunications in Central America
EBU	-	European Broadcasting Union
ETSI	-	European Telecommunications Standards Institute
PATU	-	Pan African Telecommunications Union
UAPT	-	African Posts and Telecommunications Union
URTNA	-	Union of National Radio and Television Organizations of Africa

ANNEX 1

**POSITION OF MEMBERS IN RELATION TO THE ACTS OF THE UNION
ON 31 DECEMBER 1990**

Table I. *Final Acts of Nairobi (1982), Final Acts of Nice (1989) and Administrative Regulations:*

- International Telecommunication Convention, Nairobi, 1982;
- Optional Additional Protocol to the International Telecommunication Convention, Nairobi, 1982, on the Compulsory Settlement of Disputes;
- Constitution and Convention of the International Telecommunication Union (Nice, 1989);
- Optional Protocol on the Compulsory Settlement of Disputes Relating to the Constitution, to the Convention and to the Administrative Regulations (Nice, 1989);
- International Telecommunication Regulations (Melbourne, 1988);
- Radio Regulations (Geneva, 1979);
- Partial revision of the Radio Regulations (WARC for the Mobile Services, Geneva, 1983) (MOB-83);
- Partial revision of the Radio Regulations (WARC on the Use of the Geostationary-Satellite Orbit and the Planning of the Space Services Utilizing It, Geneva, 1985) (ORB-85);
- Partial revision of the Radio Regulations (WARC for the Planning of the HF Bands Allocated to the Broadcasting Service, Geneva, 1987) (HFBC-87);
- Partial revision of the Radio Regulations (WARC for the Mobile Services, Geneva, 1987) (MOB-87);
- Partial revision of the Radio Regulations (WARC on the Use of the Geostationary-Satellite Orbit and the Planning of the Space Services Utilizing It, Geneva, 1988) (ORB-88);

Table II. *Final Acts of the World Administrative Radio Conference for the Planning of the Broadcasting-Satellite Service in Frequency Bands 11.7 - 12.2 GHz (in Regions 2 and 3) and 11.7 - 12.5 GHz (in Region 1) (Geneva, 1977).*

Table III. *Regional Agreement concerning the use by the broadcasting service of frequencies in the medium frequency bands in Regions 1 and 3 and in the low frequency bands in Region 1 (Geneva, 1975).*

Table IV. *Regional Agreement concerning the Use of the Band 87.5 - 108 MHz for FM Sound Broadcasting (Region 1 and part of Region 3) (Geneva, 1984).*

Table V. *Regional Agreement concerning the Maritime Mobile and the Aeronautical Radionavigation Services in the MF Band (Region 1) (Geneva, 1985).*

Table VI. *American Regional Agreements:*

- Inter-American Radio Agreement (FIAR) (Washington, 1949);
- North-American Regional Broadcasting Agreement (NARBA) (Washington, 1950);
- Regional Agreement relating to MF Broadcasting Service in Region 2 (Rio de Janeiro, 1981);
- Regional Agreement concerning the Use of the Band 1605 - 1705 kHz in Region 2 (Rio de Janeiro, 1988).

Table VII. *European Regional Convention, Arrangement, Agreements and Protocol:*

- European Regional Convention for the Maritime Mobile Radio Service (Copenhagen, 1948);
- Regional Arrangement concerning Maritime Radiobeacons in the European Area of Region 1 (Paris, 1951);
- Regional Agreement for the Use of Frequencies in the Bands 68 - 73 MHz and 76 - 87.5 MHz by the Broadcasting Service on the one hand and by the Fixed and Mobile Services on the other (Geneva, 1960);
- Regional Agreement for the European Broadcasting Area (Stockholm, 1961);
- Protocol amending the Stockholm Agreement (Geneva, 1985);
- Regional Agreement for the Planning of Maritime Radionavigation Service (Radiobeacons) in the European Maritime Area (Geneva, 1985).

Table VIII. *African Regional Agreements and Protocols:*

- Regional Agreement for the African Broadcasting Area concerning the use of frequencies by the broadcasting service in the very high frequency and ultra high frequency bands (Geneva, 1963);
- Protocol amending this agreement (Geneva, 1985);
- Protocol abrogating those parts of this agreement, which are still in force (Geneva, 1989);
- Regional Agreement relating to the Planning of VHF/UHF Television Broadcasting in the African Broadcasting Area and Neighbouring Countries (Geneva, 1989).

IX. *Special Agreements.*

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Table I. Final Acts of Nairobi (1982), Final Acts of Nice (1989) and Administrative Regulations

POSITION ON 31 DECEMBER 1990

The letter S means that the Act concerned has been signed.

The letter A in columns 3, 5, 8 or 10 means accession; in the other columns, it means approval.

MEMBERS (In the alphabetical order of the French version of the country names)	Class of Contribution Number of Units	FINAL ACTS OF NAIROBI (1982)				Class of Contribution Number of Units on 1.1.1991	FINAL ACTS OF NICE (1989) ***)			International Telecom- munication Regulations Melbourne, 1988	ADMINISTRATIVE REGULATIONS													
		Convention, etc. *)		Opt. Add. Prot. **)			Constitution and Convention		Optional Protocol		Radio Regulations													
		Date on which the instrument of ratification or accession was deposited with the General Secretariat	Date on which the instrument of ratification or accession was deposited with the General Secretariat					Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat	Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat		Geneva, 1979	Partial Revision Geneva, 1983 MOB-83	Partial Revision Geneva, 1985 ORB-85	Partial Revision Geneva, 1987 HFBC-87	Partial Revision Geneva, 1987 MOB-87	Partial Revision Geneva, 1988 ORB-88								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Afghanistan (Republic of).....	1/8	S 1)	26.X.1984 2)	S		1/16	S 53)		S		-		S	A 4)	-		-		S		S		S	
Albania (Socialist People's Republic of)	1/4	A	2.XI.1984 23)	-		1/4	-		-		S		-	A 4)	-		-		S		-		-	
Algeria (People's Democratic Republic of)	1	S 1)	14.I.1986	-		1	S 53)		-		-		S	A 4)	S	A 4)	S		S		S		S	
Germany (Federal Republic of)	30	S 1)	6.XII.1985 2) 27)	-		30	S 53)		-		S		S	A 6)	S	A 7)	S	A 46)	S	A 48)	S	A 3)	S	A 52)
Angola (People's Republic of)	1/4	S	10.VI.1989	-		1/4	S		S		S		S	A 4)	S	A 4)	S	A 4)	S	A 4)	S		S	
Antigua and Barbuda.....	1/8	A	4.II.1987	-		1/16	S 53)		S		-		-	A 4)	-	A 4)	-	A 4)	S		S		S	
Saudi Arabia (Kingdom of).....	10	S 1)	25.IV.1986 39)	S		10	S 53)		S		S		S	A	S	A 4)	S		S		S		S	
Argentine Republic.....	3	S 1)	2.II.1987 45)	S		1/4	S 53)		-		S		S	A 3)	S	A 3)	S	A 3)	S	A 3)	S		S	
Australia.....	18	S 1)	12.I.1984	S	3.IV.1985	15	S 53)		S		S		S	A 4)	S	A	S		S		S		S	
Austria.....	1	S 1)	30.III.1989 2)	S	30.III.1989	1	S 53)		S		S		S	A 4)	S	A 4)	S	A 4)	S	A 4)	S		S	
Bahamas (Commonwealth of the)	1/2	A	5.II.1988	-		1/2	S 53)		S		S		-	A	-	A 4)	-	A 4)	-		S		S	
Bahrein (State of).....	1/2	A	13.I.1984 25)	-		1/2	S 53)		S		-		S	A 4)	S		S		-		-		S	
Bangladesh (People's Republic of)	1/8	S 1)	12.IV.1989	S		1/8	S 53)		S		-		S	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Barbados.....	1/4	S 1)	22.V.1986	S	18.III.1987	1/4	S 53)	5.X.1990	S	5.X.1990	-	A 54)	-	A 4)	-	A 4)	-	A 54)	-	A 54)	-	A 54)	-	A 54)
Belgium.....	5	S 1)	9.X.1986	S	9.X.1986	5	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Belize.....	1/8	S	20.XII.1985 30)	S	21.III.1986	1/8	-		-		-		-	A	-	A 4)	-		-		-	-	-	-
Benin (Republic of).....	1/4	S 1)	4.VII.1986	S		1/4	S 53)		S		S		S	A 4)	S	A 4)	-		-		-	-	S	
Bhutan (Kingdom of).....	1/8	A	15.IX.1988	-		1/8	S 53)		S		S		-	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Byelorussian Soviet Socialist Republic.....	1/2	S 1)	13.I.1986 36)	-		1/2	S 53)		-		S		S	A 16)	S	A 4)	S		S	A	S	A	S	
Bolivia (Republic of)	1/4	A	30.I.1984	-		1/4	-		-		-		-	A 4)	-	-	-	-	-	-	-	-	-	-
Botswana (Republic of).....	1/2	S 1)	11.IV.1986 2)	S	21.IV.1987	1/2	S		S		S		S	A 4)	-	A 4)	-		S		-	-	-	-
Brazil (Federative Republic of).....	3	S 1)	31.I.1990	S		3	S 53)		S		S		S	A 4)	S	A 4)	S	A 4)	S	A 4)	S	A 4)	S	
Brunei Darussalam.....	1/2	A	19.XI.1984	-		1/2	S 53)		S		S		-	A 4)	-	-	S		-	-	-	-	S	
Bulgaria (Republic of)	1	S 1)	21.V.1986 40)	-		1	S 53)		-		S		S	A 4)	S	A 4)	S		S		S		S	
Burkina Faso 20).....	1/8	S 1)	30.IV.1986	S		1/8	S 53)		S		S		S	A 4)	-	A 4)	-		S		S		S	
Burundi (Republic of).....	1/8	S 1)	17.V.1988	S		1/8	S 53)		S		-		S	A 4)	-	A 4)	-	A 4)	-		S		S	
Cambodia.....	1/2	-		-		1/2	-		-		-		-	-	-	-	-	-	-	-	-	-	-	-
Cameroon (Republic of) 8).....	1/2	S 1)	17.VI.1986	S	3.X.1986	1	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Canada.....	18	S 1)	11.X.1983	S	11.X.1983	18	S 53)		S		S		S	A 13)	S		S	A 3)	S		S		S	
Cape Verde (Republic of).....	1/8	S	9.VI.1989	-		1/8	S 53)		S		-		S	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Central African Republic.....	1/8	S 1)	28.XI.1988	S		1/8	S 53)		S		S		S	A 4)	-	A 4)	-	A 4)	S	A 4)	-	-	S	
Chile.....	1	S 1)	12.XII.1985 28)	S	12.XII.1985	1	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
China (People's Republic of).....	10	S 1)	19.VIII.1985 2)	-		10	S 53)		-		S		S	A 3)	S	A 4)	S		S		S		S	
Cyprus (Republic of)	1/4	S 1)	22.VIII.1986	S	22.VIII.1986	1/4	S 53)		S		S		S	A 4)	S	A 4)	-	S		S		S		S
Vatican City State.....	1/4	S	30.XII.1985	-		1/4	S		-		S		S	A 4)	-	A 4)	S		S		S		S	
Colombia (Republic of).....	1	S 1)	19.IX.1985 2)	S	19.IX.1985	1	S 53)		S		S		S	A	S	A 4)	S		S		S		S	
Comoros (Islamic Federal Republic of the)	1/8	-		-		1/16	S		S		-		-	-	-	-	-	-	-	-	-	-	-	-
Congo (People's Republic of the)	1/2	S 1)	27.IV.1988	S		1/2	S 53)		S		S		S	A 4)	-	A 4)	-	A 4)	-	-	-	-	-	-
Korea (Republic of)	1	S 1)	26.XI.1985	S	26.XI.1985	5	S 53)		S		S		S	A	S	A	S	A	S		S		S	
Costa Rica.....	1/4	S 1)		S		1/4	S 53)		S		-		S		-	-	-	-	-	-	S		-	-
Côte d'Ivoire (Republic of) 31).....	1	S 1)	17.IX.1986	S	17.IX.1986	1/4	S 53)		S		S		S	A	S	A	S		S		S		S	
Cuba.....	1/2	S 1)	28.I.1986 38)	S		1/2	S 53)		-		S		S	A 4)	S	A 4)	S		S		S		S	
Denmark.....	5	S 1)	14.III.1985	S	14.III.1985	5	S 53)		S		S		S	A 3)	S	A 3)	S		S		S		S	
Djibouti (Republic of).....	1/8	A	21.IV.1987	-		1/8	S 53)		S		S		-	A 4)	-	A 4)	S	A 4)	-	-	-	-	-	-
Dominican Republic.....	1/2	-		-		1/2	-		-		-		-	-	-	-	-	-	-	-	-	-	-	-
Egypt (Arab Republic of)	1	S	16.IX.1985	S	16.I.1987	1/2	S		S		S		S	A 4)	S	A 4)	S		S		S		S	
El Salvador (Republic of)	1/4	S 1)	28.III.1985	S	28.III.1985	1/4	-		-		S		S	A 4)	-	A 4)	-	-	-	-	-	-	-	-
United Arab Emirates.....	1	A	22.V.1986 41)	-		1	S 53)		S		S		S	A 4)	S	A 4)	-	S		-	-	-	S	
Ecuador.....	1/2	S 1)	13.IV.1988 2)	S	13.IV.1988	1/2	S 53)		S		-		S	A 4)	S	A 4)	S	A 4)	S		-	-	-	-
Spain.....	3	S 1)	17.XII.1985	-		8	S 53)		-		S		S	A 4)	S	A 4)	S	A	S	A	S		S	
United States of America.....	30	S 1)	10.I.1986 2)	-		30	S 53)		-		S		S	A 18)	S	A 4)	S		S		S		S	
Ethiopia (People's Democratic Republic of)	1/8	S	3.VII.1984	-		1/8	S 53)		-		S		S	A	S		S		-	-	S		S	
Fiji (Republic of).....	1/4	S	25.IX.1986	S	25.IX.1986	1/4	-		-		S		S	A 4)	-	A 4)	-	-	-	-	-	-	-	-
Finland.....	5	S 1)	3.I.1986	S	3.I.1986	5	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
France.....	30	S 1)	1.X.1984 2)	-		30	S 53)		-		S		S	A 4)	S		S		S		S		S	

*) Convention, Final Protocol, Additional Protocols.

**) Optional Additional Protocol on the Compulsory Settlement of Disputes.

Table I. Final Acts of Nairobi (1982), Final Acts of Nice (1989) and Administrative Regulations (continued)

MEMBERS (In the alphabetical order of the French version of the country names)	Class of Contribution Number of Units	FINAL ACTS OF NAIROBI (1982)				Class of Contribution Number of Units on 1.1.1991	FINAL ACTS OF NICE (1989) **)				ADMINISTRATIVE REGULATIONS													
		Convention, etc. *)		Opt. Add. Prot. **)			Constitution and Convention		Optional Protocol		International Telecom- munication Regulations Melbourne, 1988	Radio Regulations												
		Date on which the instrument of ratification or accession was deposited with the General Secretariat		Date on which the instrument of ratification or accession was deposited with the General Secretariat				Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat		Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat			Geneva, 1979	Partial Revision Geneva, 1983 MOB-83	Partial Revision Geneva, 1985 ORB-85	Partial Revision Geneva, 1987 HFBC-87	Partial Revision Geneva, 1987 MOB-87	Partial Revision Geneva, 1988 ORB-88						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Hungary (Republic of).....	1	S 1)	4.VII.1985 2)	-		1	S 53)		S		S		S	A	S	A	S		S	A	S		S	
India (Republic of).....	10	S 1)	8.I.1986	-		5	S 53)		-		S		S	A	S	A 4)	S		S	A	S		S	
Indonesia (Republic of).....	1	S 1)	30.XII.1985 2)	-		1	S 53)		-		S		S	A 4)	S	A 4)	S		S		S		S	
Iran (Islamic Republic of).....	1	S 1)	8.I.1986	-		1	S 53)		-		S		S	A 4)	S	A 4)	S		S		S		S	
Iraq (Republic of).....	1/4	S 1)	16.X.1986	-		1/4	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Ireland.....	2	S	3.XI.1988 49)	-		2	S 53)		-		S		S	A 4)	S	A 4)	S	A 4)	S	A 4)	S		S	
Iceland.....	1/4	S 1)	3.VII.1986	S		1/4	S 53)		S		S		S	A 4)	S	A 4)	-		S		-		S	
Israel (State of).....	1	S 1)	19.VII.1984	-		1	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Italy.....	10	S 1)	13.V.1986 2)	S	13.V.1986	20	S 53)		S		S		S	A	S	A	S		S	A	S		S	
Jamaica.....	1/4	S 1)	12.VI.1985	S		1/4	S 53)		S		-		-	A	-	A 4)	S		-		-		-	
Japan.....	30	S 1)	12.VII.1984	S	12.VII.1984	30	S 53)		S		S	A	S	A	S	A	S	A	S	A	S	A 51)	S	A
Jordan (Hashemite Kingdom of).....	1/2	S 1)	14.III.1984	S		1/2	S 53)		S		-		S	A 4)	S		S		S		S		S	
Kenya (Republic of).....	1/4	S 1)	29.XI.1985	-		1/4	S 53)		S		S		S	A 4)	S	A 4)	S		S	A	S		S	
Kiribati (Republic of).....	1/8	A	3.XI.1986	-		1/8	S 53)		S		-		-	A 4)	-	A 4)	-	A 4)	-	-	-	-	-	-
Kuwait (State of).....	1	S 1)	9.X.1986	S		3	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Lao People's Democratic Republic.....	1/8	A	8.VIII.1984 19)	-		1/16	-		-		-		-	A 4)	-	-	-		-		-	-	-	-
Lesotho (Kingdom of).....	1/8	S 1)	18.IX.1986	-		1/16	S 53)		S		-		S	A 4)	-	A 4)	-		S		-	-	-	-
Lebanon.....	1/4	S 1)	13.II.1986	S		1/4	S 53)		S		S		S	A 4)	-	A 4)	S	A	-		S		S	
Liberia (Republic of).....	1/4	A	9.III.1987	-		1/4	S 53)		S		-		S	A 4)	S	A 4)	S	A 4)	S		S		S	
Libya (Socialist People's Libyan Arab Jamahiriya).....	11/2	S 1)	15.XII.1986	S		1	S 53)		-		-		S	A 4)	-	A 4)	S	A 4)	S		S		S	
Liechtenstein (Principality of).....	1/2	S 1)	1.IV.1985	S	1.IV.1985	1/2	S 53)		S		S		S	A 4)	-	A 4)	-		-		-		S	
Luxembourg.....	1/2	S 1)	1.XI.1984	S	1.XI.1984	1/2	S 53)		S		S		S	A 4)	-	-	S		S		-		S	
Madagascar (Democratic Republic of).....	1/4	S 1)	22.I.1987	S		1/4	S 53)		S		S		S	A 4)	S	A 4)	S	A 4)	S		S		S	
Malaysia.....	3	S 1)	15.IV.1986	-		1	S 53)		-		S		S	A 4)	S	A 4)	S		S		S		S	
Malawi.....	1/8	S 1)	1.IV.1985	S	9.X.1985	1/8	S 53)		S		-		S	A 4)	-	A 4)	S		-		-	-	-	-
Maldives (Republic of).....	1/8	S 1)	1.IV.1985	S		1/8	S		S		S		-	A 4)	-	A 4)	-		S		-	-	-	-
Mali (Republic of).....	1/8	S 1)	8.V.1987	S		1/8	S 53)		S		S		S	A 4)	-	A 4)	S	A 4)	S		S		S	
Malta (Republic of).....	1/4	A	11.IV.1984 10)	A	11.IV.1984	1/4	S 53)		S		S	A 3)	S	A 4)	-	-	S		S		S		S	
Morocco (Kingdom of).....	1	S 1)	8.VI.1989	S		1	S 53)		-		S		S	A 4)	S	A 4)	S	A 4)	S	A 4)	S		S	
Mauritius.....	1/4	A	24.VII.1985	-		1/4	S 53)		S		S		S	A 4)	-	A 4)	-		-		-	-	-	-
Mauritania (Islamic Republic of).....	1/4	S 1)	11.X.1988	S		1/4	-		-		-		S	A 4)	S	A 4)	-	A 4)	S	A 4)	S		S	
Mexico.....	1	S 1)	15.III.1984 2)	S		1	S 53)		S		S		S	A 3)	S		S	A 3)	S	A 3)	S		S	
Monaco.....	1/4	S 1)	30.XII.1985	-		1/4	S		-		S		S	A 4)	S	A 4)	S		S		S		S	
Mongolian People's Republic.....	1/4	S 1)	17.III.1986 2)	-		1/4	S 53)		S		-		S	A 4)	-	A 4)	-		S		-		S	
Mozambique (People's Republic of).....	1/4	S	31.X.1988	-		1/16	-		-		-		S	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Myanmar (Union of).....	1/2	A	24.X.1986	-		1/8	S 53)		-		-		-	A 4)	-	A 4)	-		-		-	-	-	-
Namibia.....	-	A	25.I.1984	-		1/4	-		-		-		-	A 4)	-	-	-		-		-	-	-	-
Nauru (Republic of).....	1/8	-	-	-		1/8	-		-		-		-	-	-	-	-		-		-	-	-	-
Nepal.....	1/8	S	4.I.1988	S		1/8	S 53)		S		S		S	A 4)	-	A 4)	-	A 4)	-	-	-	-	-	-
Nicaragua.....	1/2	S 1)	17.II.1988	S		1/4	-		-		-		S	A 4)	S	A 4)	-	A 4)	-	-	-	-	-	-
Niger (Republic of the).....	1/8	S 1)	6.II.1984	S		1/8	S 53)		S		S		S	A 4)	-	-	-	S		-	-	-	-	-
Nigeria (Federal Republic of).....	2	S 1)	26.VIII.1986	S		2	S 53)		S		S		S	A 4)	-	A 4)	S		-		S		S	
Norway.....	5	S 1)	6.III.1986	S		5	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
New Zealand.....	2	S 1)	3.I.1986 33)	S	3.I.1986 33)	2	S 53)		S		S		S	A 34)	S	A 34)	S	A 55)	S	A 55)	S	A 55)	S	A 55)
Oman (Sultanate of).....	1/2	S 1)	23.I.1986	S	23.I.1986	1/2	S 53)		S		S		S	A 4)	S	A 4)	S		S		S		S	
Uganda (Republic of).....	1/8	S 1)	-	S		1/16	S 53)		S		S		S	-	-	-	-		-		-	-	-	-
Pakistan (Islamic Republic of).....	2	S 1)	6.III.1986	-		2	S 53)		-		S		S	A 4)	-	A 4)	S		S		S		S	
Panama (Republic of).....	1/2	A	23.X.1986	-		1/2	-		-		-		S	A 4)	S	A 4)	-		-		S		S	
Papua New Guinea.....	1/2	S 1)	25.I.1984 11)	S	25.I.1984	1/2	S 53)		S		S		S	A 4)	S		S		S		S		S	
Paraguay (Republic of).....	1/2	S	30.XII.1985	S	27.III.1987	1/2	S 53)		S		S		S	A 4)	-	A 4)	S		S		S		S	
Netherlands (Kingdom of the).....	10	S 1)	31.VIII.1984 21)	S	31.VIII.1984 22)	8	S 53)		S		S		S	A 12)	S	A 12								

Table I. Final Acts of Nairobi (1982), Final Acts of Nice (1989) and Administrative Regulations (continued)

MEMBERS (In the alphabetical order of the French version of the country names)	Class of Contribution Number of Units	FINAL ACTS OF NAIROBI (1982)				Class of Contribution Number of Units on 1.1.1991	FINAL ACTS OF NICE (1989) ***)				ADMINISTRATIVE REGULATIONS													
		Convention, etc. *)		Opt. Add. Prot. **)			Constitution and Convention		Optional Protocol		International Telecom- munication Regulations Melbourne, 1988	Radio Regulations												
		Date on which the instrument of ratification or accession was deposited with the General Secretariat	Date on which the instrument of ratification or accession was deposited with the General Secretariat	Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat	Date on which the instrument of ratification, acceptance, approval or accession was deposited with the General Secretariat		Geneva, 1979	Partial Revision Geneva, 1983 MOB-83	Partial Revision Geneva, 1985 ORB-85	Partial Revision Geneva, 1987 HFBC-87		Partial Revision Geneva, 1987 MOB-87	Partial Revision Geneva, 1988 ORB-88											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sudan (Republic of the) 32).....	1/8	S 1)	17.II.1989	S		1/16	S 53)		-		-		S	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Sri Lanka (Democratic Socialist Republic of)..	1/2	S	1.IX.1986	S		1/2	S 53)		S		-		S	A 4)	S	A 4)	S		S		S	-	-	-
South Africa (Republic of).....	1	A	14.XI.1984 24)	-		1	-		-		-		-	A 4)	-	-	-	-	-	-	A	-	-	A
Sweden.....	10	S 1)	3.X.1985 2)	S	3.X.1985	10	S 53)		S		S		S	A 4)	S	A 3)	S	A 3)	S	A 3)	S	-	S	-
Switzerland (Confederation of).....	10	S 1)	1.IV.1985	S	1.IV.1985	10	S 53)		S		S		S	A	S	A 4)	S		S		S	-	S	-
Suriname (Republic of).....	1/4	S	7.I.1985	S		1/4	S		S		-		-	A 4)	-	-	S		S		S	-	-	-
Swaziland (Kingdom of).....	1/4	S 1)	23.V.1985 2)	S	23.V.1985	1/8	S 53)		S		S		S	A 4)	-	A 4)	-	S		S	-	-	-	-
Tanzania (United Republic of).....	1/8	S 1)	5.I.1987	S		1/8	S 53)		S		S		S	A 4)	-	A 4)	S	A 4)	S		S	-	S	-
Chad (Republic of).....	1/8	A	12.XII.1984	-		1/16	S 53)		S		S		S	A 4)	-	-	S		-	-	-	-	-	-
Czech and Slovak Federal Republic.....	2	S 1)	5.III.1985	-		2	S 53)		-		S		S	A	S	A 4)	S		S		S	-	S	-
Thailand.....	1 1/2	S 1)	13.XI.1985	S		1 1/2	S 53)		S		S		S	A	S	A 4)	S		S		S	-	S	-
Togolese Republic.....	1/4	S 1)	17.III.1986	S		1/16	S 53)		S		S		S	A 4)	S	A 4)	-	S		S	-	S	-	-
Tonga (Kingdom of).....	1/8	S 1)	11.I.1988	-		1/16	S		S		S		-	A 4)	-	A 4)	S	A 4)	-	-	-	-	S	-
Trinidad and Tobago.....	1	A	1.X.1984	-		1/2	S 53)		S		-		S	A 4)	-	-	-	-	-	-	-	-	S	-
Tunisia.....	1	S 1)	10.II.1987	S	10.II.1987	1/2	S 53)		S		S		S	A 4)	S	A 4)	S	A 4)	S		S	-	S	-
Turkey.....	1	S 1)	10.III.1986	-		1	S 53)		S		S		S	A 4)	S	A 4)	S		S		S	-	S	-
Union of Soviet Socialist Republics.....	30	S 1)	16.XII.1985 29)	-		30	S 53)		-		S		S	A 14)	S	A 4)	S		S		A	-	S	-
Uruguay (Eastern Republic of).....	1/2	S 1)	24.IX.1984 2)	S	24.IX.1984	1/2	S 53)		S		-		S	A 4)	S		S		S		S	-	S	-
Vanuatu (Republic of).....	1/8	A	30.III.1988	-		1/8	-		-		-		-	A 4)	-	A 4)	-	A 4)	-	-	-	-	-	-
Venezuela (Republic of).....	2	S 1)	23.VI.1986	-		1 1/2	S 53)		-		-	A	S	A 3)	S	A 4)	S		S		S	-	S	-
Viet Nam (Socialist Republic of).....	1/2	S 1)	23.I.1986 37)	-		1/2	S 53)		-		S		-	A 37)	S	A 37)	-		S		S	-	S	-
Yemen (Republic of).....	1/4	S 1)	11.III.1987	S		1/4	S 53)		S		S		-	A 4)	-	A 4)	-	A 4)	S		-	-	-	-
Yugoslavia (Socialist Federal Republic of).....	1	S 1)	9.V.1986	-		1	S 53)		S		S		S	A	S	A 4)	S		S		S	-	S	-
Zaire (Republic of).....	1/2	S	8.VI.1989	S		1/2	S 53)		S		S		S	A 4)	-	A 4)	-	A 4)	-	A 4)	-	-	-	-
Zambia (Republic of).....	1/4	S	29.V.1986	S	5.IV.1988	1/4	S 53)		S		-		S	A 4)	S	A 4)	-		-	-	S	-	S	-
Zimbabwe (Republic of).....	1/2	S 1)	4.VII.1986 43)	S	4.VII.1986	1/2	S 53)		S		S		-	A 4)	-	A 4)	-		S		-	-	S	-

*) Convention, Final Protocol, Additional Protocols.

**) Optional Additional Protocol on the Compulsory Settlement of Disputes.

***) The Constitution and the Convention of Nice (1989) shall enter into force between Parties thereto on the thirtieth day after deposit of the 55th instrument of ratification, acceptance, approval or accession by a Member of the Union.

1) See the statement or statements appearing in the Final Protocol annexed to the Convention.

2) In ratifying the Convention, the country concerned confirmed the reservation(s) made at the time of signature.

3) This approval was given subject to the reservation(s) made at the time of signature.

4) Regulations approved *ipso facto*, since they were in force when the country concerned ratified or acceded to the International Telecommunication Convention of Malaga-Torremolinos, 1973 or to that of Nairobi, 1982.

5) See Notification No. 1088.

6) See Notifications Nos. 1171, 1179, 1187, 1192 and 1195.

7) See Notifications Nos. 1205, 1217, 1219 and 1226.

8) Formerly: Cameroon (United Republic of).

9) Formerly: Guinea (Revolutionary People's Republic of).

10) In acceding to the Convention, the Government of the Republic of Malta has reserved the right to take such action as it may consider necessary to protect its interests, should Members in any way fail to comply with the requirements of the Convention, Annexes, Protocols, etc., or should the reservations made by such Members jeopardize its telecommunications services or lead to an increase in Malta's share in defraying the expenses of the Union.

11) In ratifying the Convention, the Government of Papua New Guinea confirmed the reservation contained in No. 63 of the Final Protocol to the aforementioned Convention.

12) For the Netherlands, the Netherlands Antilles and Aruba.

13) This approval was given subject to the two reservations appearing under No. 19 in the Final Protocol made at the time of signature.

14) The notification of approval was accompanied by the following declarations:

a) in approving the Radio Regulations (Geneva, 1979), the Union of Soviet Socialist Republics reserves the right to take the necessary steps to protect its interests in the event that other States fail to observe the provisions of the said Regulations and in the event that any other action is taken which may be prejudicial to the interests of the USSR;

b) the Union of Soviet Socialist Republics does not recognize claims to the extension of State sovereignty to any segment of the orbit of geostationary satellites, since such claims are contrary to the status of outer space universally recognized in international law;

c) as the Soviet Government has already declared on several occasions in connection with the territorial claims of certain countries in Antarctica, the Union of Soviet Socialist Republics has never recognized and cannot recognize as legitimate any separate solution whatsoever to the question of the ownership of Antarctica by any State.

15) The notification of approval was accompanied by the following declarations:

a) in approving the Radio Regulations (Geneva, 1979), the Ukrainian Soviet Socialist Republic reserves the right to take the necessary steps to protect its interests in the event that other States fail to observe the provisions of the said Regulations and in the event that any other action is taken which may be prejudicial to the interests of the Ukrainian S.S.R.;

b) the Ukrainian Soviet Socialist Republic does not recognize claims to the extension of State sovereignty to any segment of the orbit of geostationary satellites, since such claims are contrary to the status of outer space universally recognized in international law;

c) in connection with the territorial claims of certain countries in Antarctica, the Ukrainian Soviet Socialist Republic has never recognized and cannot recognize as legitimate any separate solution whatsoever to the question of the ownership of Antarctica by any State.

16) The notification of approval was accompanied by the following declarations:

a) in approving the Radio Regulations (Geneva, 1979), the Byelorussian Soviet Socialist Republic reserves the right to take the necessary steps to protect its interests in the event that other States fail to observe the provisions of the said Regulations and in the event that any other action is taken which may be prejudicial to the interests of the Byelorussian S.S.R.;

b) the Byelorussian Soviet Socialist Republic does not recognize claims to the extension of State sovereignty to any segment of the orbit of geostationary satellites, since such claims are contrary to the status of outer space universally recognized in international law;

c) in connection with the territorial claims of certain countries in Antarctica, the Byelorussian Soviet Socialist Republic has never recognized and cannot recognize as legitimate any separate solution whatsoever to the question of the ownership of Antarctica by any State.

17) The approval is in respect of the United Kingdom of Great Britain and Northern Ireland and Territories under the territorial sovereignty of the United Kingdom.

18) In ratifying these Acts, the Government of the United States of America confirmed the reservations and statements made when the Final Protocol was signed (Nos. 32, 36, 38, 39, 72 and 75). The following is also contained in the instrument:

The United States reservation contained in statement XII of the Final Protocol associated with the partial revision of the 1959 Radio Regulations adopted at the World Maritime Administrative Radio Conference, Geneva, 1974, should be regarded as continuing to apply to the Radio Regulations (Geneva, 1979), the text of that reservation being as follows:

"The Delegation of the United States of America formally declares that the United States of America does not, by signature of these Final Acts on its behalf, accept any obligations in respect of the Frequency Allotment Plan for Coast Radiotelephone Stations Operating in the Exclusive Maritime Mobile Bands between 4 000 kHz and 23 000 kHz and the associated implementing procedures, and that, although the United States of America will observe the provisions of the Plan and implementing procedures to the extent practicable, pending the results of a future World General Administrative Radio Conference, the United States of America reserves its right to take such measures as may be necessary to protect its maritime radiotelephony interests."

19) In acceding to the Convention, the Government of the Lao People's Democratic Republic has reserved the right not to accept any financial measures which would lead to an unjustified increase in its contributory share in defraying Union expenses, as well as the right to take any measures to safeguard its interests, should other States fail to comply with the provisions of the International Telecommunication Convention or in the event of any other actions that might encroach upon its sovereignty.

20) Formerly: Upper Volta (Republic of the).

21) On behalf of the Kingdom in Europe, the Netherlands Antilles and Aruba. In ratifying the Convention, the Government of the Netherlands confirmed the statements in Nos. 91, 92 and 104 of the Final Protocol to the Convention and made the following new statement (*translation*):

"Ratification implies that the Kingdom of the Netherlands agrees that the granting of technical assistance to developing countries should be one of the objectives of the International Telecommunication Union (Article 4, Nos. 14 and 20 of the Convention). However, the Kingdom does not consider that expenditure relating to material equipment incurred in the implementation of projects, should be covered by funds included in the ordinary budget of the Union.

Nor could the Kingdom subscribe to any major change in the allocation of Union funds in relation to the distribution pattern applied from 1973 to the end of 1983.

This is the standpoint adopted by the Kingdom in notifying its choice of class of contribution to ITU expenditure."

22) On behalf of the Kingdom in Europe, the Netherlands Antilles and Aruba.

23) In acceding to the Convention, the Government of the Socialist People's Republic of Albania formulated the following statements (*translation*):

"1. The Socialist People's Republic of Albania accepts the settlement of disputes by arbitration in accordance with Articles 50 (No. 189) and 82 of the International Telecommunication Convention (Nairobi, 1982) only after prior agreement of all the parties to the dispute.

2. The Socialist People's Republic of Albania reserves the right to take such action as it may deem necessary to safeguard its interests if reservations made by other countries lead to an increase in its contributory share in defraying the expenses of the Union or if any Members of the Union fail to pay their contribution to defraying the expenses of the International Telecommunication Union."

24) In acceding to the Convention, the Government of the Republic of South Africa formulates the following statement:

"The Government of the Republic of South Africa reserves the right to take any action it deems necessary to protect its interests should other Members in any way fail to comply with the requirements of the International Telecommunication Convention (Nairobi, 1982) in respect of South Africa."

25) In acceding to the Convention, the State of Bahrain has made the following reservations:

"1. The State of Bahrain wishes to reserve the right of its Government to take such action as it may consider necessary to protect its interests, should Members in any way fail to comply with the requirements of the International Telecommunication Convention (Nairobi, 1982) or should the reservations made by such Members jeopardize its telecommunication services or lead to an increase in Bahrain's share in defraying the expenses of the Union.

2. The accession of the State of Bahrain to the International Telecommunication Convention (Nairobi, 1982) shall in no way imply recognition of the Member appearing in Annex 1 to the said Convention under the name of «Israel»."

Further to the above statement, the General Secretariat has received, from the Government of Israel, a note of which the contents has been published in Notification No. 1200.

26) The Government of the United Kingdom has declared that the instrument of ratification is on behalf of the United Kingdom of Great Britain and Northern Ireland, the Bailiwick of Jersey, the Bailiwick of Guernsey, the Isle of Man, Anguilla, Bermuda, British Antarctic Territory, British Indian Ocean Territory, British Virgin Islands, Cayman Islands, Falkland Islands, Falkland Islands Dependencies, Gibraltar, Hong Kong, Montserrat, Pitcairn, Henderson, Ducie and Oeno Islands, Saint Helena, Saint Helena Dependencies, Turks and Caicos Islands, and United Kingdom Sovereign Base Areas of Akrotiri and Dhekelia in the island of Cyprus.

In correction to the above statement, see the communications from the Government of the USSR and from the Government of the United Kingdom, published in Notifications Nos. 1217 and 1221, respectively.

27) See Notifications Nos. 1217, 1227 and 1233.

28) In ratifying the Convention, the Government of Chile confirmed the statements in No. 59 and in the second paragraph of No. 60 of the Final Protocol to the Convention.

29) In ratifying the Convention, the Government of the Union of Soviet Socialist Republics confirmed the statements contained in Nos. 79, 105 and 106 of the Final Protocol to the Convention and also declared that in the light of its well-known position on the Korean question, it cannot recognize as lawful the appellation "Republic of Korea" used in the Convention.

30) In ratifying the Convention, the Government of Belize reserved the right to take any action it deems necessary to protect its interests should other Members in any way fail to comply with the requirements of the International Telecommunication Convention (Nairobi, 1982).

31) Formerly: Ivory Coast (Republic of the).

32) Formerly: Sudan (Democratic Republic of the).

33) This ratification also applies to the Cook Islands and Niue.

34) This approval also applies to the Cook Islands and Niue.

35) In ratifying the Convention, the Government of the Ukrainian Soviet Socialist Republic confirmed the statements contained in Nos. 79 and 105 of the Final Protocol to the Convention and also declared that in the light of its well-known position on the Korean question, it cannot recognize as lawful the appellation "Republic of Korea" used in the Convention.

36) In ratifying the Convention, the Government of the Byelorussian Soviet Socialist Republic confirmed the statements contained in Nos. 79 and 105 of the Final Protocol to the Convention and also declared that in the light of its well-known position on the Korean question, it cannot recognize as lawful the appellation "Republic of Korea" used in the Convention.

37) In ratifying the Convention, the Government of the Socialist Republic of Viet Nam confirmed the statements in No. 48 of the Final Protocol to the Convention.

38) In ratifying the Convention, the Government of Cuba made the following statement (*translation*):

The Government of the Republic of Cuba wishes to make it clear that, in the light of the aggressive acts of the United States Government in directing radio broadcasts at our country for subversive and destabilizing purposes in contravention of the provisions of the International Telecommunication Convention, it reserves the right to use, whenever it considers it necessary, all the radio facilities at its disposal and to take all the measures it deems necessary in this connection for appropriately responding to such acts of aggression.

39) In ratifying the Convention, the Government of Saudi Arabia made the following statement (*translation*):

The Convention has been ratified subject to the proviso that this ratification does not constitute any recognition of Israel and does not imply the exchange of any formalities or relations of any sort with Israel by virtue of this Convention.

40) In ratifying the Convention, the Government of the People's Republic of Bulgaria confirmed the statements contained in Nos. 53, 73 (first paragraph) and 105 of the Final Protocol to the Convention.

41) In acceding to the Convention, the Government of the United Arab Emirates made the following reservation (*translation*):

The accession of the Government of the United Arab Emirates to the International Telecommunication Convention of Nairobi (1982) does not apply to the Zionist entity whose name appears in Annex 1 to the Convention and in no way constitutes recognition of that entity.

42) In ratifying the Convention, the Government of the Socialist Republic of Romania confirmed the statement contained in No. 14 of the Final Protocol to the Convention.

43) In ratifying the Convention, the Government of the Republic of Zimbabwe confirmed the statement contained in the third paragraph of No. 93 of the Final Protocol to the Convention.

44) (Obsolete)

45) In ratifying the Convention, the Government of the Argentine Republic confirmed the statements contained in No. 109 (paragraphs 1 and 2) of the Final Protocol to the Convention and also declared the following (*translation*):

"1. With reference to ratification of the International Telecommunication Convention (Nairobi, 1982) and its Optional Additional Protocol on compulsory settlement of disputes, signed at Nairobi, Kenya, on 6 November 1982, with regard to which an instrument of ratification was deposited by the Government of the United Kingdom of Great Britain and Northern Ireland with the General Secretariat of the International Telecommunication Union on 15 November 1984, the Argentine Republic rejects

that ratification in so far as it is made on behalf of the Malvinas, South Georgia and South Sandwich Islands and reaffirms its rights of sovereignty over those archipelagos, which are an integral part of its national territory.

The General Assembly of the United Nations has adopted Resolutions 2065 (XX), 3160 (XXVIII), 31/49, 38/12, 39/6, 40/21 and 41/40 in which it recognizes the existence of a dispute concerning sovereignty over the Malvinas Islands and urges the Argentine Republic and the United Kingdom of Great Britain and Northern Ireland to resume negotiations in order to find, as soon as possible, a peaceful and definitive solution to the dispute and to their remaining differences over this matter, through the good offices of the Secretary-General of the United Nations, who is to report on the progress made.

2. The Argentine Republic also rejects the ratification referred to in the previous paragraph in so far as it is made on behalf of the so-called "British Antarctic Territory", and likewise all ratifications and/or declarations made by Governments of Member States in so far as they mention or refer to "Antarctic Territories" as territorial dependencies of other States which overlap with the Argentine Antarctic Sector, lying between the meridians of longitude 25° and 74° West and the parallel of latitude 60° South, over which the Argentine Republic has and exercises sovereignty, the Sector being an integral part of its territory."

46) See Notification No. 1237.

47) In acceding to the Convention, the Government of the Solomon Islands reserves the right to take such action as it may consider necessary to safeguard its interests should certain Members not share in defraying the expenses of the Union, or should they fail in any other way to comply with the requirements of the International Telecommunication Convention (Nairobi, 1982) or its Annexes or the Protocols attached thereto, or should reservations by other countries jeopardize the telecommunications services of the Solomon Islands.

48) See Notification No. 1249.

49) In ratifying the Convention, the Government of Ireland made the following statement:

"The Government of Ireland wishes to refer to statement No. 90 forming part of the Final Acts of the Plenipotentiary Conference (Nairobi, 1982) and to state that in as much as that statement refers to the Bogota Declaration of 3 December 1976 and to the claims therein to the exercise of rights over segments of the geostationary-satellite orbit, the Government wishes to reaffirm the statements made on behalf of the Irish delegation at the time of signing the Final Acts of the World Broadcasting Satellite Administrative Radio Conference, Geneva, 1977 and the World Administrative Radio Conference, Geneva, 1979.

The Government of Ireland also wishes to state that the reference to the "geographical situation of particular countries" in Article 33 of the International Telecommunication Convention, Nairobi, 1982 does not imply a recognition of claim to any preferential rights to the geostationary orbit".

50) (Obsolete)

51) In approving these Acts, the Government of Japan confirmed the statement made at the time of signature of the Final Acts of the Plenipotentiary Conference (Nice, 1989).

52) See Notification No. 1269.

53) See Declarations and Reservations in the Final Acts (Nice, 1989).

54) Administrative Regulations or revisions thereof, which were adopted by competent world administrative conferences prior to the date of signature (30 June 1989) of the Nice Constitution and Convention and with regard to which the Member State automatically consented to be bound by them by virtue of its ratification, acceptance or approval of, or of its accession to, the Nice Constitution and Convention (See No. 195 in Article 43 of the Nice Constitution).

55) This approval also applies to Niue.

**Table II. Final Acts of the World Administrative Radio Conference for the Planning
of the Broadcasting-Satellite Service in Frequency Bands 11.7-12.2 GHz
(in Regions 2 and 3) and 11.7-12.5 GHz (in Region 1)
(Geneva, 1977) *)**

Note: The provisions and associated Plan contained in the Final Acts have become an integral part of the Radio Regulations, Geneva (1979) (see Article 15 and Appendix 30 of the Regulations).

S = Signature; A = Approval.

1	2	3	1	2	3	1	2	3
Afghanistan (Rep. of).....	S	6)	Denmark	S	A	Lebanon.....	S	6)
Albania (Soc. People's Rep. of) ..	-	6)	Djibouti (Republic of).....	-	6)	Liberia (Republic of).....	-	6)
Algeria (People's Democratic Republic of).....	S	6)	Egypt (Arab Rep. of).....	S	6)	Libya (Soc. People's Libyan Arab Jamahiriya)	S	6)
Germany (Fed. Rep. of).....	S	A 5)	El Salvador (Rep. of)	-	6)	Liechtenstein (Princ. of).....	S	A
Antigua and Barbuda.....	-	6)	United Arab Emirates	S	6)	Luxembourg.....	S	6)
Saudi Arabia (Kingdom of)	S	6)	Ecuador.....	S		Madagascar (Dem. Rep. of)	S	6)
Argentine Republic.....	S	A 4)	Spain	S	6)	Malaysia.....	S	A
Australia	S	6)	United States of America.....	S	6)	Malawi.....	-	6)
Austria	S		Ethiopia (People's Dem. Rep. of)	S	6)	Maldives (Republic of).....	-	6)
Bahamas (Commonwealth of the).....	-	6)	Fiji (Republic of)	-	6)	Mali (Republic of)	S	6)
Bahrain (State of).....	S	6)	Finland.....	S	A	Malta (Republic of)	S	6)
Bangladesh (People's Rep. of)...	S		France.....	S	A	Morocco (Kingdom of)	S	
Barbados.....	-	6)	Gabonese Republic.....	S		Mauritius	S	6)
Belgium.....	S	6)	Ghana.....	S	6)	Mauritania (Islamic Republic of)	S	
Belize.....	-	6)	Greece.....	S	A	Mexico.....	S	6)
Benin (Rep. of)	S	6)	Guatemala (Republic of)	S	6)	Monaco.....	S	6)
Byelorussian Soviet Soc. Rep. ...	S	A	Guinea (Republic of)	S		Mongolian People's Republic ...	S	6)
Bolivia (Rep. of)	S	6)	Equatorial Guinea (Rep. of)	-	6)	Myanmar (Union of)	-	6)
Botswana (Rep. of)	-	6)	Guyana.....	-	6)	Namibia	-	6)
Brazil (Federative Rep. of).....	S		Haiti (Republic of)	S	6)	Niger (Republic of the)	-	6)
Brunei Darussalam	-	6)	Honduras (Republic of)	-	6)	Nigeria (Federal Republic of) ...	S	6)
Bulgaria (Rep. of)	S	6)	Hungary (Republic of).....	S	A 4)	Norway	S	6)
Burkina Faso	S	6)	India (Republic of).....	S	A	New Zealand.....	S	6)
Burundi (Rep. of).....	S		Indonesia (Republic of)	S	6)	Oman (Sultanate of)	S	6)
Cameroon (Rep. of)	-	6)	Iran (Islamic Rep. of).....	S	6)	Uganda (Republic of).....	S	
Canada.....	S	A	Iraq (Rep. of)	-	6)	Pakistan (Islamic Republic of)...	S	6)
Central African Republic	S		Ireland.....	S	A	Panama (Republic of).....	S	6)
Chile	S	6)	Iceland.....	S	6)	Papua New Guinea	S	6)
China (People's Rep. of).....	S	6)	Israel (State of)	-	6)	Paraguay (Republic of)	S	A
Cyprus (Rep. of)	S	6)	Italy	S	A	Netherlands (Kingdom of the)...	S	A 3)
Vatican City State.....	S	6)	Jamaica	-	6)	Peru	-	6)
Colombia (Rep. of)	S	6)	Japan	S	6)	Philippines (Republic of the)	S	6)
Comoros (Isl. Fed. Rep. of the)...	S		Jordan (Hashemite Kingdom of)	-	6)	Poland (Republic of)	S	6)
Congo (People's Rep. of the)	S		Kenya (Republic of).....	S	6)	Portugal	S	6)
Korea (Rep. of)	S	A	Kiribati (Rep. of)	-	6)	Qatar (State of).....	-	A
Côte d'Ivoire (Rep. of).....	S	6)	Kuwait (State of)	S	6)	Syrian Arab Republic	-	6)
Cuba.....	S	6)	Lao People's Dem. Rep.	S	6)	Dem. People's Rep. of Korea	S	6)
			Lesotho (Kingdom of)	-	6)			

Table II (cont.)

1	2	3	1	2	3	1	2	3
Ukrainian Soviet Soc. Rep.	S	A	Somali Democratic Republic.....	–	6)	Trinidad and Tobago.....	–	6)
Romania	S	6)	Sudan (Republic of the).....	S	6)	Tunisia	S	6)
United Kingdom of Great Britain and Northern Ireland	S	A 1)	Sri Lanka (Dem. Soc. Rep. of) ..	–	6)	Turkey	S	6)
Rwandese Republic.....	–	6)	South Africa (Republic of)	–	6)	USSR	S	A
San Marino (Republic of).....	–	6)	Sweden.....	S	A 4)	Uruguay (Eastern Republic of)..	S	6)
Saint Vincent and the Grenadines	–	6)	Switzerland (Confederation of) ..	S	A 2)	Venezuela (Republic of)	S	6)
Solomon Islands	–	6)	Suriname (Republic of).....	–	6)	Yemen (Republic of).....	S	6)
Sao Tome and Principe (Dem. Republic of)	–	6)	Swaziland (Kingdom of)	–	6)	Yugoslavia (Soc. Fed. Rep. of) ..	S	6)
Senegal (Republic of).....	S	A	Tanzania (United Republic of) ..	S	6)	Zaire (Republic of)	S	6)
Sierra Leone.....	–	6)	Chad (Republic of).....	S	6)	Zambia (Republic of)	–	6)
Singapore (Republic of)	S	A	Czech and Slovak Federal Republic.....	S	A 4)	Zimbabwe (Republic of)	–	6)
			Thailand	S	6)			
			Togolese Republic	S	6)			

*) In the alphabetical order of the French version of the country names.

- 1) The approval is in respect of the United Kingdom of Great Britain and Northern Ireland and Territories under the territorial sovereignty of the United Kingdom.
- 2) In approving these Final Acts, Switzerland supported the statement No. 74 of the Final Protocol to these Acts.
- 3) For the Netherlands, the Netherlands Antilles and Aruba.
- 4) In approving the Final Acts, the Member concerned confirmed the statement(s) made at the time of signature.
- 5) See Notifications Nos. 1146, 1169, 1175 and 1182.
- 6) This Member has approved the Radio Regulations, Geneva, 1979, of which the provisions and associated Plan contained in the Final Acts form an integral part.

**Table III. Regional Agreement concerning the use by the broadcasting service
of frequencies in the medium frequency bands in Regions 1 and 3
and in the low frequency bands in Region 1
(Geneva, 1975) *)**

S = Signature; A = Approval or Accession.

1	2	3	1	2	3	1	2	3
Afghanistan (Rep. of).....	S		Hungary (Republic of).....	S	A 1)	Papua New Guinea	S	A
Albania (Soc. People's Rep. of) ..	—	A	India (Rep. of)	S	A	Netherlands (Kingdom of the)...	S	A 3)
Algeria (People's Democratic Republic of)	S		Indonesia (Rep. of).....	S		Philippines (Rep. of the).....	S	
Germany (Fed. Rep. of).....	S	A 4)	Iran (Islamic Rep. of).....	S		Poland (Republic of)	S	A 1)
Angola (People's Rep. of)	—		Iraq (Republic of).....	—		Portugal	S	
Saudi Arabia (Kingdom of)	S		Ireland	S	A	Qatar (State of).....	S	
Australia	S		Iceland.....	S	A	Syrian Arab Republic.....	S	
Austria	S		Israel (State of)	S		Dem. People's Rep. of Korea	—	
Bahrain (State of).....	—	A	Italy	S	A	Ukrainian Soviet Soc. Rep.	S	
Bangladesh (People's Rep. of) ..	S		Japan	S	A	Romania	S	A 5)
Belgium	S	A	Jordan (Hashemite Kingdom of)	S	A	United Kingdom of Great Britain and Northern Ireland	S	A 2)
Benin (Rep. of)	S		Kenya (Republic of).....	S		Rwandese Republic.....	—	
Byelorussian Soviet Soc. Rep. ...	S	A	Kiribati (Rep. of)	—		San Marino (Republic of).....	—	
Botswana (Rep. of).....	S	A	Kuwait (State of)	S		Solomon Islands	—	
Bulgaria (Rep. of)	S	A	Lao People's Dem. Rep.	—		Sao Tome and Principe (Dem. Rep. of).....	—	
Burkina Faso	S		Lesotho (Kingdom of)	S		Senegal (Rep. of).....	S	A
Burundi (Rep. of).....	S		Lebanon	S		Sierra Leone	—	A
Cambodia	—		Liberia (Republic of).....	S		Singapore (Rep. of)	S	A
Cameroon (Republic of).....	S	A	Libya (Soc. People's Libyan Arab Jamahiriya).....	S		Somali Democratic Republic	—	
Cape Verde (Republic of)	—		Liechtenstein (Princ. of)	S	A	Sudan (Rep. of the).....	S	
Central African Republic	S		Luxembourg	S	A	Sri Lanka (Dem. Soc. Rep. of)...	S	
China (People's Rep. of).....	S	A	Madagascar (Dem. Rep. of).....	S		South Africa (Rep. of)	—	
Cyprus (Rep. of)	S		Malaysia.....	S		Sweden	S	A
Vatican City State	S	A	Malawi	S	A	Switzerland (Confederation of) .	S	A
Comoros (Isl. Fed. Rep. of the)...	—		Maldives (Rep. of)	—		Swaziland (Kingdom of).....	—	
Congo (People's Rep. of the)	S		Mali (Rep. of)	S		Tanzania (United Rep. of).....	S	
Korea (Rep. of)	S	A	Malta (Republic of).....	—		Chad (Rep. of).....	S	
Côte d'Ivoire (Republic of)	S	A	Morocco (Kingdom of).....	S	A	Czech and Slovak Federal Republic	S	A 1)
Denmark	S	A	Mauritius	S		Thailand.....	S	
Djibouti (Rep. of).....	—		Mauritania (Islamic Rep. of)	S		Togolese Republic.....	S	
Egypt (Arab Rep. of).....	S 6)		Monaco	S	A	Tonga (Kingdom of).....	—	A
United Arab Emirates.....	S		Mongolian People's Rep.	S	A	Tunisia	S	
Spain	S	A	Mozambique (People's Rep. of) .	S	A	Turkey	S	
Ethiopia (People's Dem. Rep. of)	S	A	Myanmar (Union of).....	—	A	USSR	S	A
Fiji (Republic of)	S	A	Namibia.....	—		Viet Nam (Soc. Rep. of).....	—	
Finland.....	S	A	Nauru (Rep. of)	—	A	Yemen (Republic of).....	S	
France	S	A	Nepal	S	A	Yugoslavia (Soc. Fed. Rep. of) ..	S	A
Gabonese Republic.....	S		Niger (Rep. of the)	S		Zaire (Republic of)	S	
Gambia (Rep. of the)	S		Nigeria (Fed. Rep. of)	S		Zambia (Republic of)	S	
Ghana	S		Norway	S	A	Zimbabwe (Rep. of).....	—	
Greece.....	S	A	New Zealand.....	S	A			
Guinea (Rep. of)	S		Oman (Sultanate of).....	—	A			
Guinea-Bissau (Rep. of).....	—		Uganda (Rep. of).....	S				
Equatorial Guinea (Rep. of).....	—		Pakistan (Islamic Rep. of).....	S				

*) In the alphabetical order of the French version of the country names.

- 1) In approving the Agreement, the Member concerned confirmed the statement(s) made at the time of signature.
- 2) This approval is also in respect of the Territories under the territorial sovereignty of the United Kingdom in Regions 1 and 3.
- 3) This approval is in respect of the Kingdom in Europe.
- 4) See Notification No. 1132.
- 5) In approving this Agreement, the Government of the Socialist Republic of Romania has made the following statement:
“ The Socialist Republic of Romania reserves the right to take the necessary action to ensure that its broadcasting transmitters cover the entire national territory with broadcast programmes, in an appropriate manner, in the event that the coordination provided for in the Plan annexed to this Agreement cannot be achieved by negotiations.”
- 6) See Notification No. 1175.

**Table IV. Regional Agreement concerning the Use of the Band 87.5-108 MHz
for FM Sound Broadcasting (Region 1 and part of Region 3)
(Geneva, 1984) *)**

S = Signature; A = Approval or Accession.

1	2	3	1	2	3	1	2	3
Afghanistan (Rep. of).....	S		Guinea (Rep. of).....	S		Netherlands (Kingdom of the)...	S	A
Albania (Soc. People's Rep. of) .	S		Guinea-Bissau (Rep. of)	—		Poland (Republic of)	S	
Algeria (People's Democratic Republic of)	S		Equatorial Guinea (Rep. of)	—		Portugal	S	
Germany (Fed. Rep. of).....	S	A 1)	Hungary (Republic of).....	S		Qatar (State of).....	S	A
Angola (People's Rep. of)	S		Iran (Islamic Rep. of).....	S		Syrian Arab Republic	S	
Saudi Arabia (Kingdom of)	S	A	Iraq (Republic of).....	S		Ukrainian Soviet Soc. Rep.	S	A
Austria	S		Ireland	S		Romania	S	
Bahrain (State of).....	—		Iceland.....	—		United Kingdom of Great Britain and Northern Ireland	S	
Belgium	S		Israel (State of)	S		Rwandese Republic	—	
Benin (Rep. of)	S		Italy	S		San Marino (Rep. of).....	S	
Byelorussian Soviet Soc. Rep. ...	S	A	Jordan (Hashemite Kingdom of)	S		Sao Tome and Principe (Dem. Rep. of).....	—	
Botswana (Rep. of).....	S		Kenya (Republic of).....	S		Senegal (Rep. of)	S	
Bulgaria (Rep. of)	S		Kuwait (State of)	S		Sierra Leone	—	
Burkina Faso	S		Lesotho (Kingdom of)	S		Somali Democratic Republic	—	
Burundi (Rep. of).....	—		Lebanon	—		Sudan (Rep. of the).....	—	
Cameroon (Republic of).....	S		Liberia (Republic of).....	—		South Africa (Rep. of)	—	A
Cape Verde (Republic of)	—		Libya (Soc. People's Libyan Arab Jamahiriya).....	S		Sweden	S	A
Central African Republic	—		Liechtenstein (Princ. of)	S		Switzerland (Confederation of) .	S	A
Cyprus (Rep. of)	S		Luxembourg	S		Swaziland (Kingdom of).....	S	
Vatican City State	S	A	Madagascar (Dem. Rep. of).....	—		Tanzania (United Rep. of).....	S	
Comoros (Isl. Fed. Rep. of the)..	—		Malawi	—		Chad (Rep. of).....	S	
Congo (People's Rep. of the)	S		Mali (Republic of).....	S		Czech and Slovak Federal Republic	S	
Côte d'Ivoire (Rep. of).....	S	A	Malta (Republic of).....	S		Togolese Republic	S	
Denmark	S	A	Morocco (Kingdom of).....	S		Tunisia	S	
Djibouti (Rep. of).....	—		Mauritius.....	—		Turkey	S	
Egypt (Arab Rep. of)	S	A	Mauritania (Islamic Rep. of)	—		USSR	S	A 2)
United Arab Emirates.....	—	A	Monaco	S		Yemen (Republic of).....	S	
Spain	S		Mongolian People's Rep.	S		Yugoslavia (Soc. Fed. Rep. of) ..	S	
Ethiopia (People's Dem. Rep. of)	—		Mozambique (People's Rep. of) .	—		Zaire (Republic of)	—	
Finland	S	A	Namibia.....	—		Zambia (Republic of)	S	
France	S		Niger (Rep. of the)	—		Zimbabwe (Republic of)	S	
Gabonese Republic.....	S		Nigeria (Fed. Rep. of)	—				
Gambia (Rep. of the).....	—		Norway	S				
Ghana	—		Oman (Sultanate of).....	S				
Greece.....	S	A	Uganda (Rep. of).....	S				

*) In the alphabetical order of the French version of the country names.

1) See Notification No. 1235.

2) In approving the Agreement, the Administration of the USSR confirmed the statements made at the time of signature.

**Table V. Regional Agreement concerning the Maritime Mobile
and the Aeronautical Radionavigation Services in the MF Band (Region 1)
(Geneva, 1985) *)**

This Agreement will come into force on 1 April 1992.

S = Signature; A = Approval or Accession

1	2	3	1	2	3	1	2	3
Albania (Soc. People's Rep. of) .	-		Guinea (Rep. of).....	S		Netherlands (Kingdom of the) ...	S	A
Algeria (People's Democratic Republic of)	S		Guinea-Bissau (Rep. of)	-		Poland (Rep. of).....	S	
Germany (Fed. Rep. of).....	S	A	Equatorial Guinea (Rep. of)	-		Portugal	S	
Angola (People's Rep. of)	S		Hungary (Republic of).....	S	A	Qatar (State of).....	S	
Saudi Arabia (Kingdom of)	S	A	Iraq (Republic of).....	S		Syrian Arab Republic.....	-	
Austria	S		Ireland	S		Ukrainian Soviet Soc. Rep.	-	
Bahrain (State of).....	S		Iceland.....	-		Romania	S	
Belgium	S		Israel (State of)	S		United Kingdom of Great Britain and Northern Ireland	S	
Benin (Rep. of)	S		Italy	S	A	Rwandese Republic	-	
Byelorussian Soviet Soc. Rep. ...	-		Jordan (Hashemite Kingdom of)	-		San Marino (Rep. of)	-	
Botswana (Rep. of).....	-		Kenya (Republic of).....	S		Sao Tome and Principe (Dem. Rep. of).....	-	
Bulgaria (Rep. of)	S		Kuwait (State of)	S		Senegal (Rep. of)	-	A
Burkina Faso	-		Lesotho (Kingdom of)	-		Sierra Leone	-	
Burundi (Rep. of).....	-		Lebanon	-		Somali Democratic Republic	-	
Cameroon (Republic of).....	S		Liberia (Republic of).....	-		Sudan (Rep. of the).....	-	
Cape Verde (Republic of)	-		Libya (Soc. People's Libyan Arab Jamahiriya).....	S		South Africa (Rep. of)	-	A
Central African Republic	-		Liechtenstein (Princ. of)	-	A	Sweden	S	A
Cyprus (Rep. of)	S		Luxembourg	-		Switzerland (Confederation of) .	S	
Vatican City State	-		Madagascar (Dem. Rep. of).....	S		Swaziland (Kingdom of).....	-	
Comoros (Isl. Fed. Rep. of the)..	-		Malawi	-		Tanzania (United Rep. of).....	-	
Congo (People's Rep. of the)	-		Mali (Republic of).....	-		Chad (Rép. of).....	S	
Côte d'Ivoire (Rep. of).....	S	A	Malta (Republic of).....	S		Czech and Slovak Federal Republic	S	
Denmark.....	S	A	Morocco (Kingdom of).....	S		Togolese Republic.....	-	
Djibouti (Rep. of).....	-		Mauritius	-		Tunisia	S	
Egypt (Arab Rep. of).....	S		Mauritania (Islamic Rep. of)	-		Turkey	S	
United Arab Emirates	-		Monaco	S		USSR	S	A
Spain.....	S		Mongolian People's Rep.	-		Yemen (Republic of)	-	
Ethiopia (People's Dem. Rep. of)	-		Mozambique (People's Rep. of) .	-		Yugoslavia (Soc. Fed. Rep. of)..	S	
Finland.....	S		Namibia.....	-		Zaire (Republic of)	-	
France	S		Niger (Rep. of the)	-		Zambia (Republic of)	-	
Gabonese Republic.....	-		Nigeria (Fed. Rep. of)	-		Zimbabwe (Republic of)	-	
Gambia (Rep. of the)	-		Norway	S				
Ghana	S		Oman (Sultanate of).....	S				
Greece.....	S		Uganda (Rep. of).....	-				

*) In the alphabetical order of the French version of the country names.

Table VI. American Regional Agreements

S = Signature; A = Approval or Accession; R = Ratification.

Members *)	Inter-American Radio Agreement (FIAR) (Washington, 1949)		North-American Regional Broadcasting Agreement (NARBA) (Washington, 1950)		Regional Agreement for the MF Broadcasting Service in Region 2 (Rio de Janeiro, 1981)		Regional Agreement concerning the Use of the Band 1605-1705 kHz in Region 2 (Rio de Janeiro, 1988)	
	2	3	4	5	6	7	8	9
Antigua and Barbuda.....	—		—		—		S	
Argentine Republic.....	S		—		S	A 4)	S	
Bahamas (Commonwealth of the).....	—		—		S		—	
Barbados.....	—		—		—		S	
Belize.....	—		—		S		—	
Bolivia (Republic of).....	S		—		—		—	
Brazil (Federative Republic of).....	S		—		S	A	S	
Canada.....	S		S	2)	S	A	S	
Chile.....	S		—		S		S	
Colombia (Republic of).....	S		—		S		S	
Costa Rica.....	S	A	—		S		S	
Cuba.....	S		S	1)	—		S	
Denmark.....	—		—		S	A	—	A
Dominican Republic.....	S	A	S	R	—		—	
El Salvador (Republic of).....	S		—		—		—	
Ecuador.....	S		—		S		—	
United States of America.....	S	A	S	R	S		S	
France.....	—		—		S		S	
Grenada.....	—		—		S		—	
Guatemala (Republic of).....	S		—		—		—	
Guyana.....	—		—		S		—	
Haiti (Republic of).....	—	A	—		—		S	
Honduras (Republic of).....	S	A	—		—		S	
Jamaica.....	—		—		S		—	
Mexico.....	S	A	—		S		S	
Nicaragua.....	S	A	—		S		—	
Panama (Republic of).....	S		—		S		—	
Paraguay (Republic of).....	—	A	—		S		S	
Netherlands (Kingdom of the).....	—		—		S	A 3)	—	
Peru.....	—		—		S		—	
United Kingdom of Great Britain and Northern Ireland.....	—		S	R	S		S	
Saint Vincent and the Grenadines.....	—		—		—		—	
Suriname (Republic of).....	—		—		—	A	S	
Trinidad and Tobago.....	—		—		S		S	
Uruguay (Eastern Republic of).....	S		—		S		S	
Venezuela (Republic of).....	S		—		S		S	

*) In the alphabetical order of the French version of the country names.

1) The Government of Cuba has denounced this Agreement with effect from 3 November 1981.

2) The Government of Canada has denounced this Agreement with effect from 17 February 1985.

3) For the Netherlands Antilles and Aruba.

4) In approving the Agreement, the Argentine Government confirmed the statements contained in No. 2 (paragraphs A.1, A.2, A.3, B and C) of the Final Protocol to the Agreement and also declared the following (*translation*):

"Furthermore, the United Nations General Assembly adopted Resolutions 2065 (XX), 3160 (XXVIII), 31/49, 37/9, 38/12, 39/6, 40/21 and 41/40 recognizing the existence of a sovereignty dispute relating to the question of the Malvinas Islands and urging the Argentine Republic and the United Kingdom of Great Britain and Northern Ireland to conduct negotiations with a view to resolving the dispute peacefully and definitively through the good offices of the Secretary-General of the United Nations, who was asked to report to the General Assembly on the progress made."

Table VII. European Regional Convention, Arrangement, Agreements and Protocol

S = Signature; A = Approval or Accession; R = Ratification.

Members *)	European Regional Convention for the maritime mobile radio service (Copenhagen, 1948)		Regional Arrangement concerning Maritime Radiobeacons in the European Area of Region 1 (Paris, 1951)		Regional Agreement in the bands 68-73 MHz and 76-87.5 MHz (Geneva, 1960) **)		Regional Agreement for the European Broadcasting Area (Stockholm, 1961)		Protocol amending the Stockholm Agreement (Geneva, 1985)		Regional Agreement concerning Maritime Radiobeacons (Geneva, 1985) ***)	
	2	3	4	5	6	7	8	9	10	11	12	13
Albania (Socialist People's Republic of)	-		-		S		-		-		-	
Algeria (People's Democratic Republic of)	-		-		-		-		-		S	
Germany (Federal Republic of)	-		-		S	A	S	A 6)	S	A 8)	S	A 8)
Saudi Arabia (Kingdom of)	-		-		-		-		-		-	
Austria	-		-		S	A	S	A	S	A	S	
Belgium	S	R	S	A	-		S	A	-	A	S	
Byelorussian Soviet Socialist Republic	-		-		S		S	A 5)	S	A	-	
Bulgaria (Republic of)	-	1)	-		S		S		-		S	
Cyprus (Republic of)	-		-		-		S	A	-		S	
Vatican City State	-		-		-		S	A	S	A	-	
Denmark	S	R	S	A	S	A	S		S		S	A
Egypt (Arab Republic of)	-		-		-		-		S		-	
Spain	-		S		-		S	A 2)	S	A	S	
Finland	-		-		-		S	A	S	A	S	
France	S	R	S	A	S	A	S	A	S	A	S	A
Greece	S	R	-		S		S	A	S	A	S	
Hungary (Republic of)	-		-		S	A	S	A	S		S	A
Iraq (Republic of)	-		-		-		-		-		-	
Ireland	S	R	-	A	-		S	A	S		S	
Iceland	S	R	-		-		S	A	-	A	-	
Israel (State of)	-		-		-		S		S		S	
Italy	S	R	S	A	S	A	S	A	S		S	A
Jordan (Hashemite Kingdom of)	-		-		-		-		-		-	
Lebanon	-		-		-		S		-		-	
Libya (Socialist People's Libyan Arab Jamahiriya) ..	-		-		-		-		-		S	
Liechtenstein (Principality of)	-		-		-		-		-		-	
Luxembourg	-		-		-		S		S		-	
Malta (Republic of)	-		-		-		-		S		S	
Morocco (Kingdom of)	S	R	S	A	-		S	A	-	A	S	
Monaco	S	R	S	A	-		S		S		S	
Norway	S	R	S	A	S	A	S	A	S	A	S	
Netherlands (Kingdom of the)	S	R	S	A	-		S	A	S	A	S	A
Poland (Republic of)	-		-		S		S		S		S	
Portugal	S		S		-		S	A	S		S	
Syrian Arab Republic	-		-		-		-		-		-	
Ukrainian Soviet Socialist Republic	-		-		S	A	S	A 5)	S	A	-	
Romania	-		-		S	A	S		S		S	
United Kingdom of Great Britain and Northern Ireland	S	R	S	A	-		S 7)	A 7)	S		S	
San Marino (Republic of)	-		-		-		-	A	S	A	-	
Sweden	S	R	S	A	S	A	S	A	S	A	S	A
Switzerland (Confederation of)	-		-		S	A	S	A	S		-	A
Czech and Slovak Federal Republic	-		-		S	A	S		S		S	
Tunisia	S	R	S	A	-		-		S		S	
Turkey	S		S	A	S		S		S		S	
Union of Soviet Socialist Republics	-	3)	-		S	A	S	A 5)	S	A 9)	S	A
Yugoslavia (Socialist Federal Republic of)	-		-	A	S		S	A	S	A	S	

*) In the alphabetical order of the French version of the country names.

- **) Regional Agreement for the use of frequencies in the bands 68-73 MHz and 76-87.5 MHz by the broadcasting service on the one hand and by the fixed and mobile services on the other (Geneva, 1960).
- ***) Regional Agreement for the Planning of Maritime Radionavigation Service (Radiobeacons) in the European Maritime Area (Geneva, 1985).
(Note: This Agreement will come into force on 1 April 1992.)
- 1) The People's Republic of Bulgaria has given notice that its coast stations use the frequencies assigned to them in the Copenhagen Plan.
 - 2) The Spanish Government has approved this Agreement while maintaining the three reservations which appear in paragraph I (A, B and C) of the Final Protocol.
 - 3) The Union of Soviet Socialist Republics has given notice that its coast stations use the frequencies assigned to them in the Copenhagen Plan.
 - 4) (Obsolete)
 - 5) Considering that, when the plans for the assignment of frequencies to television stations in the 645-960 MHz band were established at the Stockholm Conference in 1961, the requirements of the air radionavigation services of the USSR, the Ukrainian SSR and the Byelorussian SSR were not sufficiently taken into consideration, and in view of the special nature of the air radionavigation services, the Telecommunication Administrations of the USSR, the Ukrainian SSR and the Byelorussian SSR cannot assure countries using this range for television of the necessary means to prevent interference from the air radionavigation services of the USSR, the Ukrainian SSR and the Byelorussian SSR.
 - 6) In giving its approval, the Administration of the Federal Republic of Germany expressed the following considerations:

" According to the frequency plan for television stations in the frequency band 162-230 MHz (Annex 2, Chapter 2, of the Agreement), the frequencies 224.25/229.75 MHz are assigned to the Sonneberg television station appearing in the plan with an effective radiated power of 30/6 kW and an effective radiated power of 5 kW for the television carrier permitted in the sector between 45 and 135 degrees.

This assignment is capable of causing harmful interference to the aeronautical radionavigation service stations which operate in the frequency band 223-235 MHz in accordance with Article 5 of the Radio Regulations, Geneva, 1959.

Harmful interference to stations operating in the frequency band 223-235 MHz, which is allocated to the aeronautical radionavigation service on a primary basis, can only be avoided if the effective radiated power of the Sonneberg television station does not exceed 0.5/0.1 kW in the sector between 135 and 345 degrees."
 - 7) Also signed and approved on behalf of the Overseas Territories for the international relations of which the Government of the United Kingdom is responsible.
 - 8) See Notification No. 1235.
 - 9) In approving this Protocol, the Administration of the USSR confirmed the statements made at the time of signature.

Table VIII. African Regional Agreements and Protocols

S = Signature; A = Approval or Accession.

Members*)	Geneva Agreement (1963)		Geneva Protocol (1985)		Geneva Protocol (1989)		Geneva Agreement (1989)	
1	2	3	4	5	6	7	8	9
Algeria (People's Democratic Republic of)	-		-		S		S	
Angola (People's Republic of)	-		-		-		-	
Saudi Arabia (Kingdom of)							S	
Bahrain (State of)							S	
Benin (Republic of)	S		-		S		S	
Botswana (Republic of)	-		S		-		S	
Burkina Faso	S		-		S		S	
Burundi (Republic of)	-		S		-		S	
Cameroon (Republic of)	S		S		S		S	
Cape Verde (Republic of)	-		-		-		-	
Central African Republic	-		-		-		-	
Comoros (Isl. Fed. Rep. of the)	-		-		-		-	
Congo (People's Republic of the)	S		-		S		S	
Côte d'Ivoire (Republic of)	S	A	S	A	S		S	
Djibouti (Republic of)	-		-		-		-	
Egypt (Arab Republic of)	-	A	S		S		S	
United Arab Emirates							S	
Spain	S	A	S	A	S		S	
Ethiopia (People's Dem. Rep. of)	S	A	S		S		S	
France	S	A	S	A	S		S	
Gabonese Republic	S		S		S		S	
Gambia (Republic of the)	-		-		-		-	
Ghana	S		S		S		S	
Guinea (Republic of)	S		-		-		S	
Guinea-Bissau (Republic of)	-		-		-		-	
Equatorial Guinea (Republic of)	-		-		-		-	
Iran (Islamic Republic of)							S	
Iraq (Republic of)							S	
Kenya (Republic of)	S	A	S	A				
Kuwait (State of)							S	
Lesotho (Kingdom of)	-		-					
Liberia (Republic of)	S		-					
Libya (Socialist People's Libyan Arab Jamahiriya)	S		-					
Madagascar (Dem. Republic of)	S		S		S		S	
Malawi	-		-		-		S	
Mali (Republic of)	S		-		S		S	
Morocco (Kingdom of)	-		-		S		S	
Mauritius	-		-		S		S	
Mauritania (Isl. Republic of)	S		-		S		S	
Mozambique (People's Rep. of)	-		-		S		S	
Namibia	-		-		-		-	
Niger (Republic of the)	S		-		-		S	
Nigeria (Federal Republic of)	S	A	-		S		S	
Oman (Sultanate of)							S	
Uganda (Rep. of)	S	A	-		-		-	
Qatar (State of)							S	

Table VIII (continuation)

Members*)	Geneva Agreement (1963)		Geneva Protocol (1985)		Geneva Protocol (1989)		Geneva Agreement (1989)	
1	2	3	4	5	6	7	8	9
United Kingdom of Great Britain and Northern Ireland	S		S		-		-	
Rwandese Republic	S		-		-		S	
Sao Tome and Principe (Democratic Republic of).....	-		-		-		-	
Senegal (Republic of)	S	A	S		S		S	
Sierra Leone	S	A	-		-		-	
Somali Democratic Republic	S		-		-		-	
Sudan (Republic of the)	-		-		-		-	
South Africa (Republic of)	S	A	-	A	-		-	
Swaziland (Kingdom of)	-		-		S		S	
Tanzania (United Republic of)	S	A	-		-		-	
Chad (Republic of)	S		-		S		S	
Togolese Republic	S		S		-		S	
Yemen (Republic of)							S	
Zaire (Republic of)	S		-		-		-	
Zambia (Republic of)	-		S		S		S	
Zimbabwe (Republic of)	-		-		S		S	

*) In the alphabetical order of the French version of the country names.

IX. Special Agreements

Special Agreement for use of the 582 - 606 MHz band for radionavigation purposes (Brussels, 1962)

This Agreement was concluded between the following Administrations: Federal Republic of Germany, Belgium, Denmark, France, Kingdom of the Netherlands, United Kingdom of Great Britain and Northern Ireland and Confederation of Switzerland.

Special Agreement concerning the use of frequencies for additional low-power television transmitters operating in the ultra high-frequency range (Band IV, 472 - 582 MHz and Band V, 582 - 960 MHz) in the frontier areas (Karlsruhe, 1966)

This Agreement was concluded between the following Administrations: Federal Republic of Germany, Austria, Belgium, France, Italy, Luxembourg and Kingdom of the Netherlands.

This Agreement was approved without reservation by all these Administrations.

Special Agreements concerning the coordinated use of frequencies between 29.7 and 470 MHz by the fixed and land mobile services

Agreement signed at Vienna on 25 April 1969 by the following Administrations: Austria, Hungarian People's Republic and Czechoslovak Socialist Republic.

This Agreement, which was approved without reservation by these Administrations, came into force on 1 January 1970.

Agreement signed at Budapest on 1 July 1976 by the following Administrations: Hungarian People's Republic and Socialist Federal Republic of Yugoslavia.

This Agreement became effective sixty days after signing.

Agreement signed at Athens on 23 June 1979 by the following Administrations: Greece and Socialist Federal Republic of Yugoslavia.

This Agreement, which was ratified by these Administrations, came into force on 1 January 1980.

Agreement signed by the following Administrations: Socialist Republic of Romania and Socialist Federal Republic of Yugoslavia.

This Agreement came into force on 10 February 1981.

**Special Agreements concerning the coordinated use of frequencies
between 29.7 and 960 MHz by the fixed and land mobile services**

Agreement signed at Vienna on 23 September 1976 by the following Administrations: Austria and Socialist Federal Republic of Yugoslavia.

This Agreement, which was approved without reservations by these Administrations, came into force on 1 January 1977.

Agreement signed at Vienna on 24 January 1986 by the following Administrations: Austria, Federal Republic of Germany, Belgium, France, Italy, Luxembourg, the Kingdom of the Netherlands and the Confederation of Switzerland.

This Agreement came into force on 1 January 1989.

**Regional Arrangement concerning the Rhine radiotelephone service
(Munich, 1976)**

This Arrangement was concluded on 1 October 1976 between the Administrations of the following countries: Federal Republic of Germany, Belgium, France, Luxembourg, the Kingdom of the Netherlands and the Confederation of Switzerland.

The Arrangement, which was approved by all the said Administrations (with some reservations on the part of the Netherlands Administration), came into force on 1 April 1977.

In addition, the Administration of the United Kingdom of Great Britain and Northern Ireland became a participating Administration under the provisions of Article 9 of the Arrangement.

Special Agreement concerning the use of the band 174 - 225 MHz

One such Agreement was signed at Paris on 10 April 1984 between the Administrations of France and the United Kingdom of Great Britain and Northern Ireland.

This Agreement came into force on 10 May 1984.

**Protocol of Agreement concerning the bringing into service
of broadcasting frequency assignments appearing in the Geneva Plan (1984)
in the band 104 - 108 MHz**

This Protocol of Agreement was signed at Geneva on 7 December 1984 by the delegates of the Administrations of France and the United Kingdom of Great Britain and Northern Ireland on the one hand, and the Administrations of the Federal Republic of Germany, Belgium, Ireland, Italy, Luxembourg, Monaco, the Kingdom of the Netherlands and the Confederation of Switzerland on the other hand.

The provisions of the Protocol of Agreement came into force on 1 January 1986.

**Protocol of Agreement concerning criteria of sharing
between different services in the band 174 - 225 MHz**

This Protocol of Agreement was signed at Geneva on 27 November 1984 by the delegates of the Administrations of the Kingdom of the Netherlands and of the United Kingdom of Great Britain and Northern Ireland.

The provisions of this Protocol of Agreement came into force on 27 December 1984.

**Special Agreement concerning implementation of the
broadcasting service in frequency band 104 - 108 MHz**

This Agreement was signed at Copenhagen on 29 January 1986 by delegates of the Administrations of the Federal Republic of Germany, Denmark, the People's Republic of Poland, Sweden and the USSR.

The Agreement contains details of frequency usage that can be implemented in the time period mentioned in Resolution 3 of the RAC for the Planning of VHF Sound Broadcasting (Region 1 and part of Region 3) (Geneva, 1984).

**Special Agreement concerning the assignment and use
of frequency-modulated sound-broadcasting channels
in the VHF band 88 - 108 MHz**

This Agreement was signed at Montevideo on 8 July 1980 by the representatives of the Administrations of the Argentine Republic, the Federative Republic of Brazil and the Eastern Republic of Uruguay.

Note: The terms of the Agreement were received by the General Secretariat on 10 June 1987.

ANNEX 2

BUDGET AND ACCOUNTS FOR 1990

BUDGET AND ACCOUNTS FOR 1990

EXPENDITURE	BUDGET 1990	EXPENDITURE 1990
I. BUDGET OF THE UNION	- Swiss francs -	
A. Ordinary budget		
Sect. 0 - Contribution to the Technical Coop. prog.	765,000	765,000.00
Sect. 1 - Administrative Council	1,206,300	994,521.45
Sect. 1.1 - Studies on the structure of the Union	852,500	831,232.35
Common Headquarters' expenditure		
Sect. 2 - Staff	58,774,000	56,943,113.60
Sect. 3 - Social security	14,186,000	14,197,468.45
Sect. 4 - Premises	5,476,000	5,636,276.60
Sect. 5 - Missions	230,000	266,135.20
Sect. 6 - Office and miscellaneous expenses	8,658,000	8,881,887.48
	90,147,800	88,515,635.13
Sect. 7 - Technical cooperation and assistance	15,233,600	13,425,619.70
Sect. 8 - Implementation of 1989 PP resolution No.59	3,027,000	3,027,000.00
Sect.11.6 - WARC MOB-87	263,900	226,951.50
Sect.11.8 - WARC 1992	1,158,000	1,074,051.45
Sect.12 - OCIR meetings	1,038,600	1,213,073.50
Sect.13 - OCITT meetings	3,887,500	3,735,008.65
Sect.15 - ITU seminars	104,800	104,800.00
Sect.17 - Common expenses for confer. and meetings	2,742,100	2,446,624.50
	9,915,400	8,800,509.60
	117,603,800	113,768,764.43
Sect.19 - Payment into ITU Reserve Account	3,100,000	3,100,000.00
	120,703,800	116,868,764.43
Maintenance and renewal of simult. interpr. equipment	15,000	18,409.00
Cancellation of bad debts	0	129,505.60
	120,718,800	117,016,679.03
Surplus income		4,737,070.53
	120,718,800	121,753,749.56
B. Regional conferences budget		
Sect.20.5 - CARR, AFBC (2)	355,500	227,048.00
Sect.20.6 - CARR, BC-R2 (2)	61,800	32,799.00
	417,300	259,847.00

1990 budget including additional credits

BUDGET AND ACCOUNTS FOR 1990

INCOME	BUDGET 1990	EXPENDITURE 1990
I. BUDGET OF THE UNION	- Swiss francs -	
A. Ordinary budget		
Contributions:		
- Contributions by the Members for the current year	106,198,750	106,198,750.00
- Contributions by recognized private operating agencies, scientific or industrial organizations and international organizations to meet conference and meeting expenses under Sect. 11 to 13:		
Administrative conferences	-	-
CCIR	3,551,000	3,908,749.95
CCITT	7,764,500	8,113,124.90
Sundry income	85,750	281,410.11
	117,600,000	118,502,034.96
Subsidy from the supplementary publications budget	500,000	500,000.00
	118,100,000	119,002,034.96
Withdrawal from ITU Reserve account	2,603,800	2,603,800.00
Withdrawal from the Renewal fund for simult.interpr.eq.	15,000	18,409.00
Withdrawal from ITU Reserve account to write off bad debts	-	129,505.60
	120,718,800	121,753,749.56
B. Regional conferences budget		
Sect.20.5 - CARR, AFBC (2)	355,500	227,048.00
Sect.20.6 - CARR, BC-R2 (2)	61,800	32,799.00
	417,300	259,847.00

1990 budget including additional credits

BUDGET AND ACCOUNTS FOR 1990

EXPENDITURE	BUDGET 1990	EXPENDITURE 1990
II. TECHNICAL COOPERATION SPECIAL ACCOUNTS BUDGET	- Swiss francs -	
Sect. 21 - Technical Cooperation administrative costs	6,197,300	5,522,510.14
Surplus income for 1990	-	291,105.82
	6,197,300	5,813,615.96
III. SUPPLEMENTARY PUBLICATIONS BUDGET		
Sect. 24 & 25 - Cost of publications issued in 1990 including overheads	8,790,600	9,774,141.69
Sect. 26 - Cost of the Telecommunication Journal and the List of Addresses	1,615,000	1,415,159.85
Sect. 26 - Sundry	240,000	131,478.25
	10,645,600	11,320,779.79
Surplus income transferred to Publica- tions capital account	454,000	533,164.29
	11,100,000	11,853,944.08

1990 budget including additional credits

BUDGET AND ACCOUNTS FOR 1990

INCOME	BUDGET 1990	EXPENDITURE 1990
II. TECHNICAL COOPERATION SPECIAL ACCOUNTS BUDGET	- Swiss francs -	
UNDP contributions to defrayal of project costs	6,197,300	4,684,644.60
Contributions from funds-in-trust		826,086.60
Contributions from the Special fund for technical cooperation		0.00
Other income		
- Balance of account for payments granted for 1989		44,165.98
- Sundry income		258,718.78
	6,197,300	5,813,615.96
III. SUPPLEMENTARY PUBLICATIONS BUDGET		
Sale of publications issued during 1990 and previous years	9,800,000	10,766,940.35
Sale of the Telecommunication Journal and the List of Addresses	300,000	239,481.10
Advertisements in the Telecommunication Journal	800,000	641,714.40
Sundry	200,000	205,808.23
	11,100,000	11,853,944.08

1990 budget including additional credits

ANNEX 3

LIST OF PUBLICATIONS ISSUED BY THE UNION IN 1990

TITLE OF PUBLICATION	Number of copies	Total number of pages per language
1. Resolutions and Decisions of the Administrative Council, 1990 update, Supplement No. 26, 45th session	F 300 E 500 S 150	96
2. 12 Notifications, Nos. 1265 to 1276	F 500 E 650 S 150	172
3. Report on the activities of the Union in 1989	F 650 E 750 S 350	292 272 296
4. Financial operating report for 1989	F 450 E 500 S 200	64
5. Twenty-ninth report by the International Telecommunication Union on telecommunication and the peaceful uses of outer space, Booklet 38, 1990	F 300 E 600 S 200	116 112 120
6. List of publications, January and September 1990	F 2250 E 4750 S 1500	112
7. Telecommunication Journal, 12 issues, Volume 57, I-XII	F 1900 E 3900 S 800	1074
8. ITU Global Directory, April 1990 issue, trilingual	1000	380
9. 26 Operational Bulletins, Nos. 459 to 484, trilingual	1000	336
10. 26 trilingual Annexes "Information concerning the maritime mobile and maritime mobile-satellite services", trilingual	900	684
11. Minutes of the Plenipotentiary Conference, Nice 1989	F 200 E 400 S 100	604 564 594
12. Radio Regulations, 1990 edition Loose-leaf edition Bound edition	E 6000 E 2700	2798 2798
13. Final Acts of the WARC on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing it (ORB-88), Geneva 1988	F 400 E 900 S 200 A 60 C 50 R 50	402 296 402 410
14. Final Acts of the WARC for the Mobile Services (MOB-87), Geneva 1987 Arabic	A 50	336
15. Final Acts of the WATTC, Melbourne 1988, Arabic, Russian	A 100 R 100	76 100
16. Final Acts of the Regional Administrative Conference for the Planning of VHF/UHF Television Broadcasting in the African Broadcasting Area and Neighbouring Countries, Geneva 1989	F 200 E 300 S 100	128
17. Final Acts of the Regional Administrative Conference of the Members of the Union in the African Broadcasting Area to Abrogate the Regional Agreement for the African Broadcasting Area (Geneva, 1963), Geneva 1989	F 200 E 250 S 100 A 50	12 12
18. List of international telephone routes, 30th edition 1990, trilingual	500	360
19. 3rd edition of the Bureaufax Table - International public facsimile service between public bureaux (Bureaufax), trilingual	600	192
20. Table of telegram rates, 1985 edition, Supplement No. 3, trilingual	600	36
21. Gentex Table - Routing table for offices connected to the Gentex Service, 9th edition 1990, trilingual	450	274
22. TA Table - Transferred account telegraph service, 7th edition 1988, Supplement No. 2, trilingual	450	192
23. Yearbook of common carrier telecommunication statistics, 17th edition 1990, trilingual	850	458
24. List of coast stations, 12th edition 1989, Supplement No. 3, trilingual Supplement No. 4, trilingual	18000 19000	96 128
25. List of ship stations, 30th edition 1990, trilingual	13000	1904

TITLE OF PUBLICATION	Number of copies	Total number of pages per language
26. List of ship stations, 30th edition 1990, Supplements Nos. 1 to 3, trilingual	13000	490
27. List of radiodetermination and special service stations, 10th edition 1989, Supplements Nos. 2 and 3, trilingual	17500	114
28. List of international monitoring stations (List VIII), 7th edition 1990, trilingual	450	134
29. Alphabetical List VIIA of call signs of stations used by the maritime mobile service, 14th edition 1989, Supplements Nos. 3 to 6, 1990, multilingual Supplement No. 7, 1990, multilingual	14500 16500	578 192
30. Alphabetical List of call signs of stations other than amateur stations, experimental stations and stations of the maritime mobile service (List VIIB), 11th edition 1989, Supplements Nos. 1 and 2, trilingual	1500	60
31. 26 General Secretariat Circulars, Nos. 1 to 26	F 800 E 1800 S 300	118
32. 50 IFRB Weekly Circulars, Nos. 1908 to 1957, Parts I, II, III and Special Sections, trilingual Part IV, trilingual	370 385	12040 (62) 858
33. 4 Summaries of monitoring information received by the IFRB, Nos. 242 to 244, trilingual No. 245, trilingual	400 300	48 (6) 16 (2)
34. Tentative High Frequency Broadcasting Schedule, June, September, December 1990; March 1991, trilingual	350	2802
35. High Frequency Broadcasting Schedule, September and December 1988; March 1989, trilingual	250	1008
36. Preface to the IFRB Weekly Circular and the International Frequency List, 12th edition 1988, Update No. 3, March 1990	F 250 E 500 S 100	236
37. 12th edition 1988 of the International Frequency List on microfiches, March and September 1990 issues, trilingual Edition 12.4 Edition 12.5	260 280	(266) (268)
38. International Frequency List on CD-ROM, edition 12.5 (1990-09-05)	300	-
39. List of space radiocommunication stations and radioastronomy stations (List VIIIA), editions 8.8 and 8.9, trilingual Section I Section II	300 300	14 (76) (4)
40. XVIth CCIR Plenary Assembly, Dubrovnik, 1986 Arabic edition <u>Volumes</u> V X.1 XI.1	A 50 A 50 A 50	734 536 430
41. Red Book, VIIIth CCITT Plenary Assembly, Malaga-Torremolinos, 1984 Arabic edition <u>Fascicle</u> VIII.5	A 100	568
42. Blue Book, IXth CCITT Plenary Assembly, Melbourne, 1988 Arabic edition <u>Fascicles</u> II.1 II.4 VI.4 VI.10 X.7 VI.3 VIII.3	A 100 A 100 A 100 A 100 A 100 A 100 A 100	480 400 236 172 312 220 508

TITLE OF PUBLICATION	Number of copies	Total number of pages per language
43. Blue Book, IXth CCITT Plenary Assembly, Melbourne, 1988 <u>Fascicles</u> I.1 I.2 II.4 III.1 III.3 III.4 III.5 III.6 IV.1 IV.2 IV.3 IV.4 VI.1 VI.5 VI.13 VII.1 VII.2 VII.3 VII.5 VII.6 VII.7 VIII.7 IX X.1	F 700 E 3500 S 400 F 700 E 3500 S 400 F 800 E 4200 S 400 F 1000 E 4800 S 500 F 800 E 4600 S 400 F 1200 E 4600 S 500 F 1000 E 4600 S 500 F 900 E 4500 S 450 F 800 E 4000 S 400 F 800 E 4000 S 400 F 800 E 3600 S 400 F 800 E 4300 S 400 F 800 E 4000 S 400 F 800 E 4400 S 400 F 750 E 4000 S 400 F 800 E 4200 S 400 F 800 E 4200 S 400 F 1000 E 7000 S 450 F 1000 E 4500 S 450 F 800 E 4200 S 400 F 800 E 4200 S 400 F 1100 E 7000 S 450 F 800 E 3800 S 400 F 700 E 4000 S 400	256 68 300 340 140 624 296 392 464 136 124 244 520 192 328 296 300 500 392 486 332 636 180 288 340 288
44. Blue Book, IXth CCITT Plenary Assembly, Melbourne, 1988 <u>Annexes to Fascicle VII.5</u> Annex B (I) Annex C (II) Annex D (III)	F 200 E 600 S 100 F 200 E 600 S 100 F 200 E 600 S 100	92 112 108 376 366 376 162 162 154
45. New CCITT Recommendations and modified existing CCITT Recommendations V.42 bis F.73 I.253.1 I.255.3 I.255.4 X.612	F 750 E 2000 S 250 F 300 E 1000 S 200 F 350 E 1200 S 200 F 350 E 1200 S 200 F 350 E 1200 S 200 F 350 E 1200 S 250	32 8 16 12 8 20
46. Supplement to the World Plan Book (Lisbon-Estoril, 1988) 1989-1994, trilingual	500	132
47. Optical fibre system planning guide, 1989 edition	F 250	244
48. Directives concerning the protection of telecommunication lines against harmful effects from electric power and electrified railway lines <u>Volumes</u> I III IV V VI VII VIII IX	F 100 E 200 S 50 E 200 F 100 E 200 S 50 F 100 E 200 S 50 F 100 E 200 S 50 F 100 E 200 S 50 F 100 E 200 S 50 E 200	150 144 152 288 230 72 64 40 84 282
49. GAS 7, Handbook on rural telecommunications, Volume I	F 250 E 600 S 150	136 128 136
50. WATTC-88 Resolution PL/3 : Follow-up study of the costs of providing and operating the international telephone service between industrialized and developing countries	F 200 E 300 S 100	76 72 76

TITLE OF PUBLICATION	Number of copies	Total number of pages per language
REPRINTS		
51. ITU Global Directory, April 1990 issue, trilingual	300	380
52. 3rd edition of the Bureau fax Table - International public facsimile service between public bureaux (Bureau fax), trilingual	100	192
53. International credit card, trilingual	50000	-
54. Yearbook of common carrier telecommunication statistics, 17th edition 1990, limited edition, trilingual	80	80
55. Manual for use by the maritime mobile and maritime mobile-satellite services, 1982 edition, 1985 Update	E 2000	338
56. CCIR Handbook on satellite telecommunications	F 200 E 500	708 648
57. Blue Book, IXth CCITT Plenary Assembly, Melbourne, 1988		
<u>Fascicles</u>		
I.1	E 800	256
I.2	E 800	68
II.1	E 1500	384
II.2	E 1500	376
II.3	E 800 S 150	380
II.4	E 800	300
II.6	E 1300	188
III.2	S 150	232
III.3	E 1000	140
III.4	E 2500	624
III.5	F 400 E 2500	296
IV.1	E 800	464
IV.2	E 600	136
IV.4	F 300	244
V	E 500	444
VI.1	E 2000	520
VI.2	E 600	120
VI.3	E 500	164
VI.4	E 700 S 150	192
VI.6	E 600	262
VI.8	E 800	484
VI.9	E 1400	580
VI.10	F 250 E 1300	152
VI.11	E 1900	488
VI.12	F 300 E 1000	100
VI.13	E 600	328
VII.4	E 700	132
VII.6	E 800	488
VII.7	E 800	332
VIII.1	E 3000	532
VIII.2	E 2500	548
VIII.3	E 2000	488
VIII.4	F 300 E 1000	512
VIII.5	E 1000	600
VIII.6	F 400 E 2000	244
VIII.7	E 1000	636
VIII.8	F 300 E 800	236
IX	E 500	180
X.1	E 600	340
X.3	E 800	44
X.6	F 300 E 800	264
58. Standardized test charts for facsimile transmissions, Nos. 2 and 3, 1st edition, 1981	5000	4
59. Earthing of telecommunication installations, 1st edition 1976	E 200	58

ANNEX 4**ACTIVITIES OF THE COMPUTER DEPARTMENT IN 1990****1. Introduction**

The Computer Department is the ITU focal point for information technology (IT) systems and services and plays a major role in equipping the organization with the IT capabilities which are vital to the achievement of the Union's mission. The 1990 activities of the department - reported basically from the perspective of Administrations and other external users - reflect the increasing complexity and scope of its role as IT usage becomes more demanding and more integrated with the services and products of the Union. Increased personal productivity - necessary to compensate the budget decreases - also relies on enhanced IT tools. A short statement of the main activities in 1990 is presented in section 4.1.4 of the main body of the report.

2. Evolving User Requirements

The functions of the Computer Department are evolving with the changing information requirements of the user community which includes ITU Headquarters, ITU regional offices, Administrations, RPOAs, SIOs, standardization organizations (ISO, ETSI, etc.), international and regional organizations (UN, GATT, OECD, Intelsat, etc.), telecom user groups, universities, technical press, etc. Main user requirements include fulfillment of ITU institutional mandates (e.g. telecom standardization), provision of right information at the right place at the right time, productivity and quality of work, effective and efficient use of resources and appropriate technologies, effective and efficient information systems (office, administrative, technical) and technical support to Members.

3. Information Technology Policies and Strategy

Presentations on ITU IT Strategy Plan were made to the Coordination Committee and to senior staff of the Secretariats, as a contribution to the definition of a vision of the organization's future. The main topics were strategy planning model for a changing environment, technical infrastructure architecture (workstations, servers, local area network), information exchange, document exchange, external communications, electronic messaging, application development, user interface and training.

Main IT policies include focus on mission applications, portability of information and applications, adherence to international standards (particularly CCITT), integrated IT architecture, training, end user computing and professional development of information systems.

Close collaboration with the HLC Consultants (Booz, Allen & Hamilton) was a high priority activity of the department.

4. Information Exchange Policies, Strategy and Practices**4.1. Advisory Group on Information Exchange Principles and Practices**

The department participated in the Advisory Group which reports to the Coordination Committee. Activities in 1990 concentrated on preliminary steps leading to the development of an Information Exchange Strategy Plan including document exchange, electronic mail, FAX, PABX, publications policy, and pricing/marketing of information products.

4.2. Telecom Information Exchange Services (TIES)

TIES implementation received close management attention, but limited resources. The department provided the leadership and took the risk of installing the initial services. Many presentations were made to different audiences including the Administrative Council, High Level Committee, CCIR Plenary, International Telecommunications Standards Conference, CCITT

Study Groups, CCITT Electronic Document Handling Ad hoc Group (Res. 18), etc. As the value of the services came to be recognized by the growing community of users and as managerial awareness increased, key institutional support emerged in the 1990 Session of the Administrative Council.

TIES was officially announced in 1990 by Circular Letters of the Secretary General and CCI Directors. Basic documentation was prepared and many new users were registered (about 500 by the end of year). Negotiations with Administrations and service providers were initiated for interworking with TIES. An agreement with MCI was announced in October 1990 which represents a major contribution including MCI-TIES interworking, free MCI Mail usage and free TIES access from MCI X.25 service for participants in ITU activities. TIES support of X.400 messaging was enhanced with the official availability (1 Feb 1990) of the Swiss PTT ARCOM X.400 public service. Much work remains to be done not only in improving the technical system but especially in incorporating electronic information exchange techniques in the working methods of the Union Secretariats. Additional information is presented in Doc. CA46/7115, as well as in the TIES User Notes available from the department's secretariat.

4.3. Remote Access to ITU Information Systems

The pilot tests for the remote access to the Frequency Management System (FMS) and the Maritime Services were continued. The remote access to the PLAN system continued in operation and was again demonstrated at the Plan Committee Meeting for Asia and Oceania in Bangkok.

Several ITU databases (Global Directory, Telecom Terminology, etc.) were implemented as TIES Videotex-like applications with a simple user interface.

4.4. Document Systems

A joint project with concerned users and services has led to full scale revision of the methods used for processing documents with a transition from the COSY mainframe system to a LAN-based PC solution using a graphical user environment. The adoption of Word for Windows as the standard ITU word processing package provides a common document architecture for the draft, approval and publication phases of the standards processing cycle. Much work has been done on document templates and automated tools to facilitate the preparation methods of the different classes of ITU documents. This work will also eventually benefit external originators of ITU documents. Increased cooperation is taking place with external users (e.g. CCITT Study Group Editors) in order to better understand their requirements. A program to convert existing Cosy-based documents to a standard format (Rich Text Format) for Word for Windows was developed. This facility, necessary for the transition to Word for Windows, also makes texts available to external users.

4.5. CD-ROM

The department participated in the development of the first ITU CD-ROM product, the IFRB International Frequency List. A prototype of a similar product for the Ship Stations List was also initiated.

4.6. Software

The department participated in the preparation and distribution of software packages to be used by Administrations, including data entry packages (e.g. HFB Schedule (Art. 17) and Maritime Services), communication tools (e.g. Kermit), and CCIR technical programs.

5. Support to Administrations, RPOAs, SIOs

In the area of information exchange, support activities concentrated on TIES services. Technical advice to Administrations were provided in Geneva (e.g. USSR) or in missions to the respective countries (e.g., Barbados, Kenya).

Support for Delegates: A number of PCs with laser printers and commonly used word processing software were installed in convenient locations for the use of delegates to ITU activities.

Conference support: The ITU's TELnet Local Area Network (LAN) was extended to a Wide Area Network (WAN) with links to LANs set up at conference sites for the CCIR Plenary Assembly in Dusseldorf and for Africa Telecom 90 and the African Telecommunication Development Conference in Harare.

Information dissemination in different media (magnetic tapes, diskettes, CD-ROM, microfiche) continued to be performed by the department. A diskette copier machine was installed due to the increasing volume of diskettes being shipped to outside users or customers.

6. Technical Infrastructure

The IT infrastructure consisting of workstations, network, servers, databases, and applications enables effective and efficient use of IT-related capabilities, procedures, knowledge and services by individuals, work groups and the entire organization. A client-server, evolving, open and multivendor technical architecture is being pursued.

The ITU's TELnet Local Area Network (LAN) has almost 1000 connection points and over 750 workstations (PCs). Services provided on the network include file servers for PCs, laser printers, access to reference information, electronic mail, software installation and maintenance, and various distributed applications such as document registration and tracking. In 1990 about 100 more PCs, three MicroVAX 3000 series file servers, more disk storage, and 4 medium speed PostScript laser printers (20 ppm) were added to the network. A RISC-based Unix server was tested as part of the plan to transfer selected applications away from the central BS2000 computers.

The external communications facilities supporting TIES, mentioned in section 4.2 of this annex, include PSTN (telephone) and PSPDN (X.25) access to interactive services, as well as X.400 store-and-forward electronic mail. Several multiprotocol modems were installed in 1990.

The department is participating actively in the effort to establish an enhanced U.N. communications network (Res. 50 of the Nice Plenipotentiary).

7. Support and Services to Internal Users

Support activities include operations, system software, database management, PC workstation software, local area network, data backup, input/output control, software ordering and control, technical library (books, manuals, magazines), graphics, document exchange, photocomposition, equipment maintenance and installation, etc.

8. Information Systems Development and Maintenance

Main activities in the Maritime Services area: development and implementation of extensions to the *Ship Stations System* and to the *Coast Stations System*; design and development of a *Remote Notification Management System* supporting the Administration's notification process on a local PC; developing of a subsystem accepting notification on diskette; design and initial development of systems supporting List VI and List VIIa; development of a prototype CD-ROM version of the List of Ship Stations; maintenance of several application systems.

Main activities in the Financial Management area: maintenance, support and extension of 11 different accounting systems; establishment of BDT project accounting; PC integration.

Main activities in the Personnel Management area: implementation of a PC-based prototype for personnel management; start design of new *Personnel Management and Payroll System*; maintenance of Short Term Payroll, Permanent Payroll and Pension systems.

Enhancement and support of the Regional African Telecommunication Database (RATDA) used by RASCOM Project Office, BDT, CTD and TELECOM, and preparation of document on African Telecommunication Statistics.

As part of the Telecom Indicator Task Group, the Computer Department has been identifying Telecom Indicator systems, products and users. This activity has involved extensive interviews with users, research of related documents, and intensive analysis of systems and the data contained in them. The results, along with identification of current weaknesses and proposed solutions, are documented in a report to be issued in the second quarter of 1991.

Initiation of a study on the BDT Information Systems requirements.

Many other small systems were either developed (e.g. administrative and financial system for Africa Telecom), enhanced (e.g. standard address system), studied (e.g. travel service), or supported.

9. Training

The reduction in the staffing of the Computer Department Training and Support Center (TSC), an area of recognized high priority as confirmed by the HLC Consultants report, had a negative impact on the level of services provided. During 1990 the TSC taught a total of 587 attendees in 9 main subject areas. Course documentation was improved and complemented by use of presentation graphics tools. Support and assistance to visiting delegates is becoming a booming activity.

The TSC was relocated with additional equipment and presentation rooms.

10. Human Resources

Information-intensive organizations tend to change from hierarchical organization to a more flat and task-oriented one, with the reduction of unnecessary information intermediaries. The Computer Department **organizational structure** is evolving along these lines, establishing an appropriate framework for managing change while maintaining a sense of continuity. In 1990 one post was transferred from the FMS Project Team and, internally, one post was transferred from system software support to the TIES project, and the responsibility for BS2000-related software support was concentrated in the Database Management Division. A team including user participants was set-up for the implementation of the Telecom Indicators database, profiting from the experienced gained in the implementation of the RASCOM database.

The continuous **professional development** of the department staff is essential. In 1990 staff participated in 53 external professional development events (courses, seminars and conferences). The staff also participated in many internal courses provided by the Training and Support Center and in two special internal courses with external instructors.

11. Miscellaneous

Staff of the department participated in 14 missions and gave presentations related to IT at outside meetings.

The ITU information technology environment is becoming a reference installation with frequent visitors. Examples of 1990 visits include several UN organizations, PKI (Philips), ETSI, Kenya PTC, Société Générale de Surveillance and Hofman LaRoche. The visits are of mutual interest as the ITU also learns from the experience and knowledge of the others.

ANNEX 5

(concerning item 4.1.5.3 of the Report)

Information exchange services provided by
Telecommunications Regulations and Relations between Members Division

Serial information services	Register of formal notices of the ITU	Printed monthly in three separate language editions entitled Notification, with an annual index.
	Register of operational notices concerning telecommunication services and facilities	Printed bi-weekly in a single trilingual edition entitled Operational Bulletin, with information concerning the maritime mobile and maritime mobile-satellite services printed separately entitled Annex to the Operational Bulletin. Twenty-six issued in 1990. Some of the information contained in the individual service supplements described below is also published, as soon as the information is available, in the Operational Bulletin.
General information services	ITU Global Directory of world telecommunication entities	Information system files made available in low-cost paper, magnetic and externally accessible electronic forms. Two editions have been published in 1990.
	Chronological statistics concerning public telecommunication services and facilities	Information system files printed annually in a single trilingual bound edition entitled Yearbook of Public Telecommunication Service Statistics. The 17th edition was issued in 1990, covering the period 1979-1988.
Information services regarding telecommunication network operations and applications	International Telecommunication Services - General Information	Information system file printed in a single trilingual loose-leaf edition with annual supplements as General Information Relating to the Operation of the International Telegraph, Data Transmission and Telematic Services (Facsimile, Teletex, Videotex, etc.). This information system was maintained, but no supplements were issued in 1990. Furthermore, in order to adapt this kind of information system to the changing telecommunications environment, a new ITU questionnaire on provision and use of international telecommunication services available to the public has been sent to all ITU Members.

Information services regarding telecommunication network operations and applications (continued)	International Telephone Traffic Routing	Information system file printed annually in a trilingual bound edition as List of International Telephone Routes. The 30th edition of the List was issued in 1990.
	International Telegram Traffic Routing	Information system file printed in a trilingual bound edition as List of Telecommunication Channels used for the Transmission of Telegrams. This information system was maintained, but no supplements were issued in 1990.
	Basic Telegram Tariffs	Information system file printed in a trilingual loose-leaf edition with annual supplements as Table of Rates for Telegrams. This information system was maintained, but no supplements were issued in 1990. Furthermore, a survey on the preparation of a possible updated edition of such information has been initiated.
	Telegraph Offices of the World	Information system file printed every five years in a three volume trilingual bound edition entitled List of Telegraph Offices. This information system was maintained, but no supplement was issued in 1990. Furthermore, a survey on the preparation of a possible updated edition of such information has been initiated.
	Telegraph Service Availability using an International Credit Card	Information system file printed in a single trilingual loose-leaf edition entitled TA (Transferred Account) Table. Supplement 2 was issued in 1990. Additionally, extracts from the file are printed annually in a single trilingual bound edition (credit card format) entitled TA Booklet, for the information of TA credit card users. One edition was issued in 1990.
	International Telex Traffic Routing and Statistics	Information system file printed annually in a single trilingual bound edition entitled Table of International Telex Relations and Traffic. One edition was issued in 1990.

Information services regarding telecommunication network operations and applications (continued)	Telegram and Telex Indications and Codes	Information system file printed in a single trilingual loose-leaf edition with annual supplements as Indicators for the Telegram Retransmission System and Telex Network Identification Codes. This information system was maintained, but no supplement was issued in 1990.
	Gentex Traffic International Routing	Information system file printed every two years in a single trilingual loose-leaf edition with annual supplements entitled Gentex Table. One edition was issued in 1990.
	Bureaufax Traffic Routing	Information system file printed in cooperation with the Universal Postal Union in a single trilingual loose-leaf edition with annual supplements entitled Bureaufax Table. One edition was issued in 1990.
Information services regarding radiocommunication and radio system operations	Radio Regulations (RR)	<p>Publication of 2800 pages printed in three separate language editions (English, French and Spanish). A new edition of the Radio Regulations was published in 1990 in two different formats :</p> <ul style="list-style-type: none"> a) loose-leaf edition with three folders which allows the user to insert (updatings) or extract information easily; b) new bound edition to provide users with a more practical smaller publication. <p>This new edition was updated so as to reflect the decisions of MOB-87 and ORB-88 WARC's which covered approximately two thirds of the texts of the RR. In view of the marked interest and need shown by users of the RR for a machine-readable format, the RR Service, after consulting with other services of the ITU, is coordinating action to obtain a readily available RR in this format.</p>
	Maritime Mobile Manual	Publication printed as a single loose-leaf volume in three separate language editions (English, French and Spanish) entitled Manual for Use by the Maritime Mobile and the Maritime Mobile-Satellite Services. It has been decided that a new edition of the Manual will be published in loose-leaf and bound formats, as was the case for the Radio Regulations. The new edition will be available in 1991. New data will be inserted (including CCIR Recommendations) resulting from consultations with the IFRB, CCIR and CCITT.

Information services regarding radiocommunication and radio system operations (continued)	Country Symbols	Information system file printed as The List of Country Symbols. The list was revised and reformatted and data made available for consultation on the network.
	Coast Stations	Information file printed in a single trilingual edition entitled List of Coast Stations (List IV). Supplements 3 and 4 to the 12th edition (1988) of the List were issued in 1990.
	Ship Stations	Information system file printed in a single trilingual edition entitled List of Ship Stations (List V). The 30th edition and quarterly Supplements 1-3 were issued in 1990.
	Radiodetermination and Special Service Stations	Information system file printed in a single trilingual edition entitled List of Radiodetermination and Special Service Stations (List V). Supplements 2 and 3 to the 10th edition were issued in 1990.
	Station Call Signs	Information system file printed in two separate trilingual editions entitled List of Call Signs and Numerical Identities of Stations Used by the Maritime Mobile and Maritime Mobile-Satellite Services (List VIIA) and List of Call Signs of Stations other than Amateur Stations, Experimental Stations and Stations of the Maritime Mobile Service (List VIIB). Supplements 3-7 to the 14th edition of List VIIA were issued in 1990. Supplements 1 and 2 to the 11th edition of List VIIB were issued in 1990.
	Monitoring Stations	Printed in a single trilingual edition entitled List of International Monitoring Stations (List VIII). The 7th edition of the List was issued in 1990.
	Final Acts of Treaty Making Conferences	Printed within one year after conferences in three (or six) separate language editions. In 1990, these included : Final Acts of the RAC for the Planning of VHF/UHF Television Broadcasting in the African Broadcasting Area and Neighbouring Countries (AFBC(2)), Geneva, 1989; Final Acts of the RAC of the Members of the Union in the African Broadcasting Area to abrogate the Regional Agreement for the African Broadcasting Area (AF+), Geneva, 1989; and preparation for Final Acts of the Plenipotentiary Conference, Nice, 1989.

