

**REPORT
OF THE
COMMITTEE
ON THE PEACEFUL USES
OF OUTER SPACE**

GENERAL ASSEMBLY

OFFICIAL RECORDS: FORTY -FOURTH SESSION

SUPPLEMENT No. 20 (A/44/20)



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NOTE

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I. INTRODUCTION

1. The Committee on the Peaceful Uses of Outer Space held its thirty-second session at United Nations Headquarters from 5 to 15 June 1989. The officers of the Committee were the following:

Chairman: Mr. Peter Jankowitsch (Austria)

Vice-Chairman: Mr. Petre Tanasie (Romania)

Rapporteur: Mr. Flavio Miragaia Perri (Brazil)

The verbatim records of the Committee's meetings are contained in documents A/AC.105/PV.322-335.

Meetings of subsidiary bodies

2. The Scientific and Technical Sub-Committee held its twenty-sixth session at United Nations Headquarters from 21 February to 3 March 1989 under the chairmanship of Mr. John H. Carver (Australia). The report of the Sub-Committee was issued as document A/AC.105/429.

3. The Legal Sub-Committee held its twenty-eighth session at United Nations Headquarters from 20 March to 7 April 1989, under the chairmanship of Mr. Stanislav Suja (Czechoslovakia). The report of the Sub-Committee was issued as document A/AC.105/430. The summary records of the Sub-Committee's meetings are contained in documents A/AC.105/C.2/SR.504-526.

4. At its opening meeting, the Committee adopted the following agenda:

1. Adoption of the agenda,
2. Statement by the Chairman,
3. General exchange of views.
4. Ways and means of maintaining outer space for peaceful purposes,
5. Report, of the Scientific and Technical Sub-Committee on the work of its twenty-sixth session.
6. Report of the Legal Sub-Committee on the work of its twenty-eighth session.
7. Implementation of the recommendation6 of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space.
8. Spin-off benefit6 of space technology: review of current status.
9. Other matters.
10. Report of the Committee to the General Assembly.

Membership and attendance

5. In accordance with General Assembly resolutions 1721 E (XVI) of 20 December 1961, 3182 (XXVIII) of 18 December 1973, **32/196 B** of 20 December 1977 and **35/16** of **3 November** 1980, the Committee on the Peaceful Uses of Outer Space **was** composed of the following Member States: Albania, Argentina, Australia, **Austria**, Belgium, Benin, Brasil, **Bulgaria**, **Burkina Faso**, **Cameroon**, Canada, Chad, Chile, China, Colombia, **Czechoslovakia**, Ecuador, Egypt, **France**, German Democratic Republic, **Germany**, Federal Republic of, Greece, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Italy, Japan, **Kenya**, Lebanon, Mexico, Mongolia, Morocco, Netherlands, Niger, Nigeria, Pakistan, Philippines, Poland, Romania, Sierra Leone, Spain, Sudan, Sweden, Syrian Arab Republic, Union of Soviet Socialist Republics, United Kingdom of Great Britain and Northern Ireland, United States of America, Uruguay, **Venezuela**, **Viet. Nam** and Yugoslavia.

6. **At its 322nd, 328th and 330th meetings**, the Committee decided to invite, at their request, the representatives of the **Byelorussian** Soviet Socialist Republic, **Cuba**, the Libyan Arab Jamahiriya, Malaysia, Portugal and Peru to attend the thirty-second **session** of the Committee **and** address it, **as** appropriate, on the **understanding** that this would be without prejudice **to** further requests of this nature and that it would not **involve any decision of the Committee** concerning **status**.

7. **At its 322nd meeting**, the **Committee** decided to grant, at its request, permanent **observer** status to the Programme **on** International Co-operation **in** the Study and Utilisation of Outer Space (INTERCOSMOS). The view was **expressed** that the Committee should develop guidelines for considering future requests for observer status.

8. Representatives of the International **Atomic Energy Agency** (IAEA), the **Food and Agriculture Organisation** of the United Nations (**FAO**), the International Telecommunication Union (**ITU**) **and** the United Nations Educational, Scientific and Cultural Organisation (UNESCO) also attended the session.

9. Representatives **of** the European Space Agency (**ESA**), the **Committee on Space Research** (COSPAR) of the International Council of Scientific Unions (ICSU), the International Astronautical Federation (**IAF**), the International Telecommunications Satellite **Organization** (INTELSAT) and the International Maritime Satellite Organisation (INMARSAT) also attended the **session**.

10. A list **of** representatives attending the session is contained in document A/AC.105/XXXII/INF/1.

Commemorations

11. The **Committee** commemorated the thirtieth anniversary of its **establishment** on a permanent basis. It also took note of other anniversaries, namely, the twenty-fifth anniversary of European space co-operation, now **under** the auspices of **ESA**, the twenty-fifth anniversary of the establishment **of** INTELSAT, and the twentieth anniversary of the first lunar landing by the astronauts of the United States.

Proceedings

12. At the opening of the **session**, at the 322nd meeting, the Chairman of the **Committee made a statement** reviewing the **work of the Committee's subsidiary bodies and** outlining the work of the Committee. He **reviewed** the scientific and technological advances achieved in the field of peaceful exploration of **outer space** in the past year, and called upon the Committee to consider what further contributions **of its own it might make** towards the strengthening of international co-operation. The text of the Chairmen's **statement** is annexed to the present report.

13. At its 322nd to 326th meetings, from 5 to 7 June 1989, the Committee held a general exchange **of views**, in the course of which statements were made **by** the representatives of Argentina, **Austria**, Belgium, Brazil, Bulgaria, Canada, Chile, China, Cuba, Czechoslovakia, Ecuador, France, the **German Democratic Republic**, **Germany**, **Federal Republic** of, Hungary, India, Indonesia, Japan, Mexico, Mongolia, the Netherlands, Nigeria, Pakistan, the Philippines, Poland, Romania, ~~Sweden~~, the **Union of Soviet Socialist Republics**, the United Kingdom of Great Britain and Northern Ireland, the United States of America and Yugoslavia (see **A/AC.105/PV.322-326**).

14. The representatives of IAF, INTELSAT, **ESA**, ITU, INMARSAT, COSPAR and **FAO**, as well **as** the Chief of the Outer Space Affairs Division of the Secretariat and the United Nations Expert on Space Applications, also made **statements** (see **A/AC.105/PV.323-328 and 330**).

15. During **the session**, special presentations were made **by**: Mr. K. R. Sreedhara Murthy, delegation of India, on "Space and industry - A partnership in progress"; and Mr. Leonard A. Ault, Deputy Director, Technology Utilization Division, Office of Commercial Programs, National Aeronautics and Space Administration (**NASA**), United **States** of America, on "Spin-off benefits of space technology".

16. After considering the various **items** before it, the Committee, at its **335th meeting**, on 15 June 1989, adopted its report to the General Assembly **containing** the recommendations and decisions set **out in** the paragraphs **below**.

II. RECOMMENDATIONS AND DECISIONS

A. Ways and means of maintaining outer space for peaceful purposes (agenda item 4)

17. In accordance with paragraph 20 of General **Assembly resolution 43/56** of 6 December 1988, the **Committee** continued its consideration, as a matter of **priori ty**, of **ways and means** of maintaining outer **space** for peaceful purposes.

18. The Committee was of the view that the General Assembly's **request**, contained in paragraph 20 of its resolution 43/56, to the Committee on the Peaceful Uses of Outer **Space** to consider, **as a matter** of priority, ways and **means** of maintaining **outer space** for peaceful purposes and to report thereon, showed the concern felt by the international community and the need to promote international co-operation in the peaceful uses of outer space, taking into account the needs of the developing **countries**. The **Committee**, through its work in the scientific, technical and legal

fields, had an **important** role to play *in* assuring that outer **space** was maintained for peaceful purposes. It was the firm belief **of** the Member States **of** the Committee that developments that would strengthen the **role**s **of** the Committee in maintaining outer space *for* **peaceful** purpose⁶ should continue. *The* Committee had responsibilities relating to the strengthening of the international basis for the peaceful exploration and **uses of** outer space. This could cover, among **other matters**, further development of international space law, including, as appropriate, the preparation of international agreement⁶ governing various practical peaceful applications **of** the achievement⁶ of space **science** and technology. Strengthening international co-operation in the peaceful exploration and uses of outer space also implied the need for the Committee itself to improve, whenever *necessary*, the methods and forms of its work.

19. Some delegations expressed the view that the Committee should complement the **work** being done *in* bilateral and multilateral forums towards preventing extension of the arms race into outer space and could provide substantive input to the discussions and negotiations in the Conference on Disarmament. They furthermore expressed the view that the Committee should be kept informed ^{as} to the progress made by the Conference on questions related to preventing extension of the **arms** race into outer space and that working contacts should be established between the two bodies.

20. **Some** delegations expressed the view that the search for ways and means of maintaining outer space *for* peaceful purposes should be focused on establishing effective measures to prevent extension **of** the arms **race** into outer space and on intensifying international co-operation in the exploration and peaceful uses of outer space, both of which were inseparably linked.

21. **Some** delegations referred to a declaration issued by Argentina, Greece, India, Mexico, Sweden and the United Republic of **Tanzania** on the occasion of the fifth anniversary **of** the launching of their Six-Nation Initiative (A/44/318-S/20689, annex), in which, *inter alia*, it was stated that outer space must be prevented from being turned into an arena for the **arms** race and military confrontation. **Some** delegations also recalled that, as stated in the report of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space, "**the** prevention of an arms race and hostilities in outer space is an essential condition **for** the promotion and continuation **of** international co-operation in the exploration and use of outer space for peaceful purposes" (A/CONF.101/10 and Corr.1 and 2, para. 14).

22. Some delegations expressed the view that disarmament questions did not fall within the competence of the Committee. They pointed out that the question of the prevention of an arms race in outer space **was** within the exclusive competence of the First Committee ~~of~~ the General Assembly and the Conference on **Disarmament**.

23. **Some** delegations pointed out that the establishment of a world space organisation had been proposed, as outlined in a working paper submitted to the Committee at an earlier session (A/AC.105/L.171). It was **emphasized** that the comprehensive presentation of the concept of such an organisation was intended to facilitate a specific exchange **of** views among the delegations represented in the Committee on the possibility of creating a world space organisation and to find a mutually acceptable solution. Other delegations expressed the view that the proposed organisation would undermine the functions of the Committee, and that a new international machinery would so be created, which they opposed.

24. **Some delegations** reiterated the view that the best way **for** the Committee to contribute to maintaining outer space **for** peaceful purposes was to promote international co-operation **further** by revitalising its **work** and that **of** its **sub-committees**. In that connection they proposed the establishment **of a working group** under the item **for** the 1990 **session** of the Committee that would explore the possibility **of** the Committee and its two sub-committees holding a joint session **in** 1992 to coincide with an international space year. Other delegations, while agreeing with the establishment **of** a working group under **the** item, expressed the view that its mandate should not be limited in scope but should encompass the entire spectrum **of** questions to be dealt with under **the** item. Other delegations expressed the view that there was no **need for** a working group whose **mandate** would correspond **exactly** to that of the Committee at large under **the** item. Other delegations pointed **out** that **a working group** to **discuss** organisational matters relating to the holding **of** a joint session **of** the Committee and its two sub-committees would run counter to the interests of delegations **from** developing countries, which needed time between meetings to keep their Governments properly informed and to receive appropriate instructions. However, although they could **not** agree with such a proposal, they confirmed their readiness to discuss any **substantive** topic within the flexible format **of** a **working group**.

25. **Some** delegations expressed **the** view that the Committee should reflect only consensus wording in its report and proposed specific language in that connection. Other delegations expressed the **view** that the report should also reflect differing views and the various proposals made during the discussion under **the** item.

**B. Report of the Scientific and Technical Sub-Committee
on the work of its twenty-sixth session**

Implementation of the recommendations of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space (agenda items 5 and 7)

26. The **Committee** considered together **agenda items 5 and 7**, entitled "Report of the Scientific and Technical Sub-Committee on the **work of** its twenty-sixth session" and "Implementation of the recommendations of the Second United Nations Conference **on** the Exploration and Peaceful Uses of Outer **Space**", respectively.

27. The Committee took note with appreciation of the report **of** the Scientific and Technical Sub-Committee on the **work of** its twenty-sixth session (**A/AC.105/429**), **covering** the results of its deliberations of the **items** assigned to it by the General Assembly in its resolution **43/56**. The Committee further noted with satisfaction that, in accordance with that resolution, the Sub-Committee had given priority **consideration** to the **item** entitled "Implementation **of** the recommendations of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space" and had re-established the Working Group **of** the Whole to evaluate the implementation of the recommendations of the Second United Nations Conference **1/** under the chairmanship of Mr. Raimundo Gonzales (Chile).

28. The Committee endorsed the recommendations of the Working Group of **the** Whole, as contained **in** its report (see **A/AC.105/429**, annex II),

29. The Committee recommended that the Working Group of the Whole should be reconvened the following year to continue its work.

30. The Committee, while expressing its appreciation to all Governments that had made or **expresse**d their intention of making contributions **for** the implementation of the recommendations of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space, took note of the disappointment expressed by the developing countries at the lack of financial resources to implement those recommendations.

31. Some delegations expressed the view that most **of** the targets set in the recommendations of the Conference remained unfulfilled and that all of **those** unfulfilled **recommendations** should be examined and implemented.

32. The Committee took note of a working paper (A/AC.105/L.179) submitted by Australia, Belgium, Canada, the Federal Republic of **Germany**, Nigeria, the Netherlands and Sweden, containing a proposal to put the issue of space debris on the agenda of the Scientific and **Tecnnical** Sub-Committee at its **next** session with a view to exchanging information and **sensitizing** Member States to this growing **problem**.

33. Although there was general agreement that space debris is an issue of concern to all nations and that it could be an appropriate subject for the **Comm:ittee** on the Peaceful Uses **of** Outer Space to discuss at some future time, **some** delegations felt that it was **prerature** to **include** it as **a.i.i'em** on the agenda at the next session of the Scientific and Technical Sub-Committee since much more **work** needed to be done at the national level. **Some** other delegations, while recognising the importance of **the** question **of** space debris, felt that other items on the agenda **of** the Sub-Committee deserved a higher priority and should be dealt with accordingly.

34. The Committee considered it essential that **more** attention be paid by Member States to the problem **of collisions** with space debris and other aspects of space debris. The Committee called for the continuation of national research on this question.

1. Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space

(a) United Nations Programme on Space Applications

35. **At** the outset **of** the Committee's **d**erations on this item, the Expert on Space Applications made a statement **briefing** the Committee on the various activities carried out or planned under the **Programme** on Space Applications during the period 1988-1990. The Committee expressed its appreciation to the Expert for the **effective** manner in which he had implemented the Programme within the limited funds at his disposal.

36. **Some** delegations drew the Committee's attention to the scarce economic resources available to the Programme and **therefore** requested that the financial resources be increased so that the Programme's **acti:ities** could be implemented. Other delegations urged that a larger share of the **existing** resources of the Outer Space Affairs Division should be devoted to the Programme.

37. The Committee took **note of** the Programme on **Space Applications**, as set out in the **report of** the Sub-Committee. The Committee **was** pleased to **note that** further progress **was** being made in the implementation of the **Programme** activities **planned for 1989**.

38. **Some delegations** expressed the view **that** emphasis **of** the Programme should be on long-term project-oriented on-the-job **training**, the strengthening **of** regional co-operation mechanisms, the use **of** space communications **for** educational and social welfare purposes, the improvement of information **exchange** services and the provision of expert services **for** the maintenance of space technology-related hardware and software.

(i) Long-range fellowships for in-depth training

39. The Committee expressed its appreciation to the Governments of Austria, Brazil, the German **Democratic Republic** and the Union of Soviet Socialist Republics, as **well as** to ESA, for offering fellowships through the United **Nations** in 1988-1989 and for renewing their offers of fellowships **for 1989-1990**.

(ii) Technical advisory services

40. Regarding technical advisory services, the Committee noted that, in 1988, the Programme had undertaken a technical advisory service mission in the **region of** the Economic **Commission for Africa (ECA)** to revise a project document on the **establishment of a remote-sensing** information programme for Africa and to develop a training **curriculum** for post-graduate **training** in remote **sensing** at the **ECA** Regional Centre for Training in Aerial Surveys, and that activities had been developed for the consideration of the Government of China, the Economic and Social Commission for Western Asia (**ESCWA**) and for Member **States** in the Indian **Ocean** Region and those on the **Atlantic Coast of Africa**.

(iii) United Nations workshops/training courses/seminars/meetings of experts

41. Regarding United Nations workshops/training **courses/meetings of experts** for 1989, the Committee also expressed its appreciation to the Government of Spain as well as to **FAO**, ESA and the United Nations **Development Programme (UNDP)** for co-sponsoring the United Nations/UNDP/FAO/ESA Meeting of Experts on Remote-Sensing and **Satellite** Meteorology Applications to **Marine** Resources and Coastal Management for the benefit of Member States on the Atlantic Coast of Africa; to the Government of Italy as well as **FAO** for co-sponsoring the **fourteenth** United Nations/FAO International Training Course **on** Remote-Sensing Applications to Land Use; to the Government of Australia as well as the **Economic and Social Commission for Asia and the Pacific (ESCAP)**, FAO, the World Meteorological Organization (**WMO**) and ESA for co-sponsoring the fifth United Nations/FAO/WMO/ESA Training **Course** on Use of Remote Sensor **Systems** (visible, infra-red, microwave) in Hydrological and Agrometeorological Applications; to the Government of the United Kingdom of Great Britain and Northern Ireland for co-sponsoring and the University of Dundee for hosting the United Nations International Meeting of Experts on the Development of Remote-Sensing Skills and Knowledge; to the Government of Pakistan for co-sponsoring and the Pakistan Space and Upper Atmosphere Research Commission for hosting the United Nations/Indian Ocean Marine Affairs Co-operation Workshop on Oceanographic/Marine Space Information **Systems**; to the Government of the Union of Soviet Socialist Republics for co-sponsoring the United Nations International Training Course on the **Use of** Remote-Sensing Data and Geographical Information

Systems in Agriculture Management) and to the Government of the German Democratic Republic for co-sponsoring and the Academy of Sciences of the German Democratic Republic for hosting the Second United Nations Training Course on Remote-Sensing Applications to Geological Sciences,

42. Regarding United Nations workshops/training courses/seminars/meetings of **experts**, the Committee endorsed the activities proposed for 1990 as outlined by **the** Expert **in** his report (see **A/AC.105/421, para. 34**) and recommended those activities for approval by the General Assembly. In so **doing**, **the** Committee welcomed the invitations **from** the **Governments** of Cuba and Italy to host and/or co-sponsor (a) the United Nations Workshop **in Space Communications for Development** for the **benefit** of States members of the Economic Commission for Latin America **and the Caribbean (ECLAC)**; and (b) the fifteenth United Nations/FAO International **Training Course on Remote-Sensing Applications**, respectively. The **Committee** also noted that **negotiations** were currently in progress to organise a United Nations/EGA workshop on microwave remote-sensing technology **for** the benefit of ECLAC member States. **The** Committee further noted with appreciation the contributions of **FAO** and **ESA** in respect of **some of** those activities. The Committee also noted that Sweden was in the process **of** preparing with the Programme on Space Applications a United Nations training **course on** remote-sensing technology for educators for the benefit **of ECA** and **ESCWA** member States.

43. The Committee noted with appreciation the financial and other assistance provided and being offered by the Governments **of Australia, the German Democratic Republic, Italy, Pakistan, Spain, the United Kingdom and the Soviet Union**, as well as by **ESCAP, FAO, UNDP, WMO, ESA and the Academy of Sciences of the German Democratic Republic, the Pakistan Space and Upper Atmosphere Research Commission and the University of Dundee (United Kingdom)** in connection with the workshop, training courses and **meetings of experts**. The **Committee** also noted with appreciation the financial contributions of \$15,000 and \$5,000 **made by the** Governments of Pakistan and Nigeria, respectively, **as well as a contribution of \$10,000 pledged by the Government of Austria**, in support of the Programme, **and** further expressed its appreciation to the Government **of the United Kingdom** for having provided **£15,000** in 1989 in support **of the Programme**.

(iv) Promotion of greater co-operation in space science and technology

44. Regarding the promotion of greater co-operation in space science and technology, the **Committee** noted with satisfaction that the **United Nations Programme on Space Applications** had collaborated with COSPAR during its twenty-seventh plenary meeting, held in Finland in July **1988**, and with other international organisations in organising and supporting a workshop. The **Committee** further noted that **the Programme** had collaborated with the International Society for Photogrammetry and **Remote Sensing (ISPRS)** during its **1988 Congress**, held in Japan, with the Sociedad de **Especialistas Latinamericanos en Percepción Remota (SELPER)** during its Third Latin American Symposium on **remote sensing**, held in Mexico in **1988**, with the Space Institute of the University of **Tennessee, Tullahoma, United States of America**, and the American Institute of Aeronautics **and Astronautics (AIAA)** by co-sponsoring an International Symposium on Space **Commercialization** with emphasis on the role of developing countries, held at Nashville, **Tennessee**.

(b) International space information service

45. With regard to the international space information service, the Committee noted with satisfaction that a revised edition of the publication Education, Training, Research and Fellowship Opportunities in Space Science and Technology and its Applications: A Directory (A/AC.105/432) and an addendum to the publication entitled Information Systems on Space Science and Technology: A Directory (A/AC.105/397/Rev.1/Add.1) had been issued. The Committee noted that both directories would continue to be updated as necessary,

(c) Studies

46. The Committee noted with satisfaction that the preparation of certain studies and reports on subjects of relevance to the recommendations of the Second United Nations Conference had been undertaken pursuant to the recommendations of the Working Group of the Whole made at its second session held in 1988 and as endorsed by the General Assembly in its resolution 43/56, paragraph 10. The Comm'ttee also noted that a final report on environmental effects of space activities prepared by COSPAR and IAF, as requested by the Working Group of the Whole at its first session (A/AC.105/383 and Corr.1, annex II, para. 13 (d)), had been submitted to the twenty-seventh session of the Scientific and Technical Sub-Committee in document A/AC.105/420, and that further studies and reports would be undertaken to implement the recommendations that had been made by the Working Group of the Whole at its third session, held in 1989.

(d) Co-ordination of space activities within the United Nations system and inter-agency co-operation

47. With regard to co-ordination of outer space activities within the United Nations system and inter-agency co-operation, the Committee noted the request of the General Assembly, contained in its resolution 43/56, to all organs, organizations and bodies of the United Nations system to co-operate in the implementation of the recommendations of the Second United Nations Conference.

48. The Committee further noted with appreciation that the Scientific and Technical Sub-Committee had continued to stress the necessity of ensuring continuous and effective consultations and co-ordination in the field of outer space activities among organizations within the United Nations system. The Committee noted with satisfaction that the tenth Inter-Agency Meeting on Outer Space Activities had been held in 1988 (ACC/1988/PG/13 and Corr.1), and that the Inter-Agency Meeting would continue its in-depth review of remote-sensing applications within the United Nations system on the basis of a working paper prepared by an ad hoc group for the 1988 Inter-Agency Meeting. The Committee also noted with appreciation that the eleventh Inter-Agency Meeting on Outer Space Activities would be held in September 1989 at the headquarters of ITU at Geneva and would discuss, inter alia, the implementation of recommendations of the Conference.

49. The Committee noted with appreciation the participation in all stages of its work and in that of its Sub-Committee by representatives of United Nations bodies, the specialized agencies and other international organizations. The Committee found the reports submitted by these bodies helpful in enabling it and its subsidiary bodies to fulfil their role as a focal point for international co-operation, especially with respect to the practical applications of space science and technology in developing countries.

50. The **Committee endorsed** the view of the Sub-Committee that the United Nations should continue to seek the support **of UNDP and other international funding institutions and that** the Secretariat **should take note of, and operate within,** UNDP funding procedures.

51. **Some** delegations expressed the view that, in **order** to reinforce **the** implementation of the recommendations **of** the Second United **Nations** Conference, the Secretary-General should prepare a quantitative report with comprehensive and detailed information on the financial and human resources **available** within and, to the extent possible, outside the **United Nations system**, particularly **for the benefit** of the developing countries.

(e) Regional and interregional co-operation mechanisms

52. Regarding regional and interregional co-operation mechanisms, the Committee noted with satisfaction that, pursuant to General Assembly resolution **42/68 of 2 December 1987**, the Secretariat had continued to seek to strengthen regional co-operation mechanisms by carrying out various activities in the implementation of the recommendations of the Conference, **in particular those under the Programme on Space Applications**, such as the United Nations Meeting of Experts on Regional Space Information **Systems** held at Lima, from 24 to 28 October 1988, **as well as the United Nations Meeting of Experts on Remote-Sensing and Satellite Meteorology Applications to Marine Resources and Coastal Management**, held at Maspalomas, Gran **Canaria**, Spain, from 8 to 12 **May** 1989, for the benefit of Member States on the Atlantic Coast of Africa **and** the United Nations Workshop on Oceanographic/Marine Space Information Systems to **be held at Karachi from 2 to 6 July 1989, for the benefit of** Member States of **the Indian** Ocean region.

53. The **Committee** noted the contributions made by other **intc** national organizations towards the implementation of the recommendations of the Second United Nations Conference. In particular, **the** Committee noted that **FAO**, through its Remote-Sensing Centre and **in** co-operation with other international organizations, was continuing its efforts to **assist** developing countries **by means** of training courses, information services, pilot projects and technical assistance **in** the applications **of remote sensing**, with emphasis **on agricultural production and agricultural security** in the least developed countries. **It further noted that ITU** was continuing its work **in** the elaboration of regulatory and technical standards, in providing advisory services on satellite **communications** to developing countries, **in** co-ordinating studies on a possible African regional satellite **system** and **in** publishing information relating to satellite communications. The Committee also noted that INTELSAT, which celebrated its twenty-fifth anniversary in 1989, was continuing to develop its **system** of international communications for **use** by all countries. The Committee also noted that INMARSAT, in addition to developing its **maritime communication satellite system**, was introducing aeronautical communication services and planning the expansion of land-mobile services and was providing training and **assistance** to developing countries in the use of the INMARSAT **system**.

2. Matters relating to remote sensing of the Earth by satellites, including, inter alia, applications for developing countries

54. The **Committee** noted that, in accordance with resolution **43/56**, the Scientific and Technical **Sub-Committee** had given priority consideration to the item concerning matters **relating to remote sensing of the Earth by satellites**.

55. The Committee also noted that, in the course of the debate in the Sub-Committee, delegation⁶ had reaffirmed **their basic positions relating to remote sensing**, which had been reflected **in the reports of the previous sessions of the Sub-Committee**.

56. The Committee recognized the importance **of continuing** international efforts to ensure the continuity, compatibility and complementarity **of system⁶** for remote sensing **of the Earth**.

57. The Committee **recognized the example of** international co-operation given by the free **distribution** of meteorological information. All countries and agencies were urged to continue that practice.

58. Some delegations expressed serious concern over the commercialization of remote-sensing activities and suggested that the prices of remote-sensing data products and access **fees** for data reception should be reduced significantly so **as** to make them affordable **for the developing countries** and enable **the** latter to benefit fully from **the use of remote-sensing technology**.

59. The Committee had before it an information paper submitted by the United States entitled "Education and training opportunities in satellite remote sensing and related space sciences and applications" (A/AC.105/L.183 and Corr.1), providing current information on education and training **opportunities in satellite remote sensing and related space sciences and applications** in the United States.

60. The Committee endorsed the decision of the Sub-Committee that the item should **be** retained on its agenda as a priority **item** for the next session and that sufficient **time** should be allocated for its consideration.

3. Use of nuclear power sources in outer space

61. The Committee noted that, in accordance with resolution **43/56**, the Scientific and Technical Sub-Committee had reconvened its **Working Group on the Use of Nuclear Power Source⁶ in Outer Space** to conduct additional work **on** the basis **of** its previous **reports** and of subsequent report⁶ of the Sub-Committee.

62. The Committee noted **that the** Sub-Committee had adopted the report **of the** Working Group as contained in annex III to the report of **the** Sub-Committee (A/AC.105/429).

63. The Committee took **note** of the discussion **on** this item as reflected in the report. **of the** Scientific and Technical Sub-Committee (A/AC.105/429, paras. 58-61) and in **the** report of the Working Group (A/AC.105/429, annex III) and urged the Sub-Committee to **make** every effort to ensure progress on the matter,

64. Some delegations expressed the view that nuclear power sources should not be used on board satellites in near-Earth orbit, but, rather that, nuclear power sources should be used only for interplanetary missions when it became inevitable to do so. For such missions, activation of nuclear power **sources** should be carried out, only after **the** spacecraft had left Earth orbit. Other delegations expressed the view that given the possible re-entry of a nuclear power source over the territory of developing countries, which in general do not possess a capability for conducting a search and salvage operation for the debris resulting from the

unplanned re-entry of a nuclear power source, it would be desirable to establish a minimum international machinery for prevention and assistance in case of an accident of this sort, in which IAEA and the Office of the United Nations Disaster Relief Co-ordinator (UNDRO) could be involved. Other delegations also expressed the need for the Outer Space Affairs Division, in collaboration with IAEA, to organize a training programme for radiological decontamination for developing countries.

65. The view was expressed that safety assessments should be made publicly available and that such assessments should be made prior to each launch,

66. The Committee noted that the Sub-Committee was of the opinion that the consideration of this item should be as concentrated and efficient as possible, taking into account the presence of experts on the use of nuclear power sources in outer space. The Committee also noted that the Sub-Committee had requested the Committee to consider the question of allocating such time to the Working Group as would enable it to study carefully the technical aspects of that item (A/AC.105/429, para. 61). In that connection, the Committee noted that the Sub-Committee would meet for 10 full working days in 1990 and therefore sufficient time could be made available for the discussion of that item in the Sub-Committee.

67. Some delegations expressed the view that the Working Group should meet for one full week parallel to the session of the Sub-Committee,

68. The Committee endorsed the recommendation of the Sub-Committee that the item should be retained on its agenda as a priority item for the next session, that the Working Group on the Use of Nuclear Power Sources in Outer Space should continue its work at that session and that sufficient time should be allocated in a flexible manner according to the needs of the Working Group.

4. Space transportation systems

69. The Committee noted that, in accordance with resolution 43/54, the Sub-Committee had continued consideration of the item relating to space transportation systems and their implications for future activities in space.

70. The Committee took note of the progress being achieved in the various programmes in operation or planned by China, India, Japan, the Soviet Union, the United Kingdom, the United States and ESA.

71. The Committee endorsed the recommendation of the Sub-Committee to continue consideration of the item at its next session.

5. Examination of the physical nature and technical attributes of the geostationary orbit. Examination of its utilization and applications, including, inter alia, in the field of space communications, as well as other question, relating to space communications developments, taking particular account of the needs and interests of developing countries

72. The Committee noted that, in accordance with resolution 43/56, the Sub-Committee had continued the consideration of the item relating to the geostationary orbit.

73. The Committee noted that delegations had reiterated and elaborated on the *views concerning* the question of geostationary orbit that had been expressed at earlier sessions and reflected in earlier reports of the Committee and its two sub-committees.

74. The Committee took note of the results of the World Administrative Radio Conference of ITU on the Uses of the Geostationary Orbit and the Planning of Space Services Utilizing It.

75. The Committee endorsed the recommendation of the Sub-committee that it continue consideration of the item at its next session.

6. Matters relating to life-sciences, including space medicine; progress in the geosphere-biosphere (global change) programme; matters relating to planetary exploration; matters relating to astronomy

76. The Committee noted that, in accordance with resolution 43/56, the Sub-Committee had continued to consider the items concerning matters relating to life-sciences, including space medicine) progress in the geosphers-biosphere (global change) programme) matters relating to planetary exploration; and matters relating to astronomy.

77. The Committee noted with satisfaction that a series of special presentations by various experts was held under those items.

78. The Committee endorsed the decision of the Sub-Committee to continue consideration of those items at its next session. It further endorsed the recommendation of the Sub-Committee that COSPAR and IAF should be invited to present reports and COSPAR should arrange a special presentation on progress in the geosphere-biosphere (global change) programme.

7. Themes fixed for special attention at the 1989 and 1990 sessions of the Scientific and Technical Sub-Committee

79. The Committee noted that, in accordance with resolution 56, the Sub-Committee had considered the item relating to the theme fixed for special attention of the 1989 session of the Scientific and Technical Sub-Committee: "Space technology as an instrument for combating environmental problems, particularly those of developing countries".

80. The Committee noted with satisfaction that, in accordance with resolution 43/56, COSPAR and IAF had conducted a symposium on the theme and expressed its appreciation to COSPAR and IAF for their generous support of the work of the Sub-Committee.

81. In that connection, some delegations felt that the Committee should deal, on a priority basis, with questions relating to the threats posed by space activities to the Earth as well as the space environment,

82. The Committee endorsed the recommendation of the Sub-Committee that the new theme fixed for special attention of the 1990 session of the Sub-Committee should be "The use of space technology in terrestrial search and rescue and in disaster relief activities". It also endorsed the recommendation of the Sub-Committee that COSPAR and IAF should be invited to arrange a symposium on that theme, with as wide a participation as possible, to be held during the first week of the Sub-Committee's session after the adjournment of its meetings.

8. Other matters

83. Some delegations welcomed the increase in the scientific content of the work of the Sub-Committee. Other delegations expressed the view that the Sub-Committee was intergovernmental in nature and should work under that definition rather than becoming a technical workshop. Those delegations further expressed the view that the mandate of the Sub-Committee was primarily to enhance international co-operation and offer scientific and technical bases for deliberations in the Legal Sub-Committee.

C. Report of the Legal Sub-Committee on the work of its twenty-eighth session (agenda item 6)

84. The Committee took note with appreciation of the report of the Legal Sub-Committee on the work of its twenty-eighth session (A/AC.105/430), which contained the results of its deliberations on the items assigned to it by the General Assembly in its resolution 43/56.

1. The elaboration of draft principles relevant to the use of nuclear power sources in outer space

85. The Committee noted that the Sub-Committee, in giving detailed consideration to this item during its twenty-seventh session, had re-established its Working Group on the item, under the chairmanship of Mr. H. Winkler (Austria).

86. The Committee noted the work carried out by the Working Group, as reflected in the report of the Legal Sub-Committee (A/AC.105/430, paras. 23-31 and annex I), and welcomed the consensus reached on the text of two draft principles relating to consultations and the settlement of disputes,

87. The Committee urged the Legal Sub-Committee to make further progress in its work on the elaboration of the outstanding draft principles in order to arrive at a final text of draft principles relevant to the use of nuclear power sources in outer space as early as possible.

88. Some delegations expressed the view that it was necessary to bring the draft principles relevant to the use of nuclear power sources in outer space into accord with the provisions of the Convention on Early Notification of a Nuclear Accident and the Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency as drawn up under the auspices of IAEA in 1986.

89. Some delegations felt that it was time for the Sub-Committee to consider the legal and binding character that the principles may finally have,

90. Some delegations expressed the view that more time should be allotted to the discussion of the use of nuclear power sources in outer space at the next session of the Sub-Committee.

91. The view was expressed that working paper A/AC.105/C.2/L.154/Rev.5 submitted by Canada was a welcome addition to the work of the session.

92. The Committee recommended that the Legal Sub-Committee should continue consideration of the item at its next session.

2. Matters relating to the definition and delimitation of outer space and to the character and utilization of the geostationary orbit, including consideration of ways and means to ensure the rational and equitable use of the geostationary orbit without prejudice to the role of the International Telecommunication Union

93. The Committee noted that the Legal Sub-Committee, in accordance with resolution 43/56, had continued to consider this item through its Working Group under the chairmanship of Mr. R. Lagorio (Argentina).

94. The Committee noted that a variety of views had been expressed on the question, as reflected in paragraphs 32 to 38 and annex II of the report of the Legal Sub-Committee (A/AC.105/430). Those views were elaborated on and reiterated during the current session of the Committee. Some delegations indicated in that connection that it was necessary to have a conventionally defined boundary between air and outer space. Some other delegations supported the proposal that any object launched into outer space be considered as being in outer space at all stages of its flight after launch at which its altitude above sea level was 110 kilometres or more. Other delegations expressed the view that the need for such a definition or delimitation had not yet been established, that attempts to establish prematurely such a definition or delimitation might complicate and impede progress in the peaceful exploration and use of outer space, that consideration of the matter was not productive, and that the question of the definition and delimitation of outer space should be removed from the agenda. Other delegations expressed the view that in dealing with the question of delimitation, account should be taken of the characteristics of the geostationary orbit.

95. The Committee noted that further progress had been made towards a convergence of views on the question of activities of States in the utilization of the geostationary orbit, and expressed the hope that a consensus on the question could be reached in the near future.

96. The Committee took note of the deliberations on the question of the geostationary orbit as contained in the report of the Legal Sub-Committee. Some delegations welcomed the presentation of a "working non-paper" by a number of countries members of the Group of 77 containing fresh ideas and new elements for constructive deliberations on the item. It further noted that in paragraph 20 and 28 of the report of the Chairman of the Working Group on agenda item 4 of the Sub-Committee relating to this matter (A/AC.105/430, annex II) were set out the views of the Group of 77 and those of the Chairman of the Working Group concerning the above initiative.

97. Some delegations expressed the view that the legal régime of the geostationary orbit should be built on the principles of equity, economy and effectiveness, in order that all countries, particularly all developing countries, might benefit from the geostationary orbit.

98. Some delegations considered that the status given to the geostationary orbit by the 1967 Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies, and by the appropriate rules of ITU, which had the value of a treaty, was satisfactory. Other delegations took the view that since this issue was a substantive part of the agenda of the Legal Sub-Committee, it should naturally give rise to the establishment of a special legal régime.

99. The Committee recommended that the Legal Sub-Committee should continue consideration of the item at its next session.

3. Consideration of the legal aspects related to the application of the principle that the exploration and utilization of outer space should be carried out for the benefit and in the interests of all States, taking into particular account the needs of developing countries

100. The Committee noted that, in accordance with resolution 43/56, the Legal Sub-Committee had considered that new item.

101. The Committee noted that a variety of views had been expressed under the new item, as reflected in paragraphs 39 to 60 of the report of the Legal Sub-Committee (A/AC.105/430).

102. With respect to the method of work concerning the item, the Committee endorsed the recommendation as set forth under the compromise proposal of the delegation of Austria and contained in paragraph 53 of the report of the Sub-Committee. The Committee also noted the views expressed in that connection as contained in paragraphs 54 to 58 of the report of the Sub-Committee.

103. The President of the Group of 77 stated that the Group attributed the highest priority to the new item and understood that the work to be undertaken under the item should be legal in nature and aim at substantive legal results. In welcoming the compromise formula under which a working group to discuss the item was created, the President of the Group of 77 said that the Group urged the Committee to establish the working group at the next session of the Legal Sub-Committee in order to initiate a substantive debate, of particular interest to the Group of 77. The

intervention of the President of the Group of 77 was supported by delegations of State members of the Group.

104. The view was expressed that the low number of responses by Member States to the Secretary-General's note verbale dated 26 September 1988 was disappointing.

105. The view was expressed that in considering international agreements entered into by Member States that are relevant to the principle that the exploration and use of outer space shall be carried out for the benefit and in the interest of all countries, the Sub-Committee should take into account treaties, conventions, agreements, principles, declarations and resolutions related to international co-operation in outer space and in general. The view was also expressed that the Sub-Committee should address under the item the modalities of the principle contained in article I, the form of guaranteeing the free exploration and use of outer space and of the freedom of scientific investigations in outer space.

106. Some delegations expressed the view that technological differences among States had brought about inequalities in the benefits derived from activities pertaining to the exploration and utilization of outer space. They felt that the working group, which would be established not later than at the 1991 session of the Sub-Committee, should seek to elaborate a set of legal principles with a view to institutionalizing international co-operation. The view was expressed that the establishment of a working group would not provide a negotiating mandate.

107. The Committee recommended that the Legal Sub-Committee should continue consideration of the item at its next session.

D. Spin-off benefits of space technology: review of current status (agenda item 8)

108. In accordance with paragraph 21 of Assembly resolution 43/56, the Committee took up consideration of the above-mentioned new agenda item. The Committee heard special presentations on the question by experts from India and the United States, as mentioned in paragraph 15 of the present report.

109. The Committee agreed that spin-offs of space technology were yielding substantial benefits in many fields. In medicine, the Committee noted that spin-offs of space technology were being used for detection of eye disease, protection against heart attacks, implantable medication systems and magnetic resonance imaging systems for diagnosing disease. In the field of safety, space activities had resulted in the development of fire-resistant fabrics, fire-extinguishing materials and breathing systems for firefighters. Industrial spin-offs included precision machine tools, instruments for testing and quality control, optical instruments and techniques, electronics and computer programmes. Space technology had also given rise to spin-off benefits in the areas of energy, environmental protection, agriculture, forestry, marine fisheries and geophysical prospecting. The Committee noted that the economic importance of these benefits was growing rapidly and, in some cases, was greater than the cost of the space programmes themselves.

110. The Committee also noted the importance of international co-operation in developing spin-off benefits of space technology and in ensuring that all countries, in particular developing countries, had access to those benefits.

111. The ~~Committee~~ took note of a working paper submitted by the Soviet Union (A/AC.105/L.180), which outlined the Soviet activities regarding *spin-off* benefits of space technology in the service of international co-operation, and a working paper submitted by the United States (A/AC.105/L.182), which suggested ways of enhancing the **sharing** of information about spin-off benefits such as the preparation of an annual report by the Outer Space Affairs ~~Division~~ distilling the information received from Member States on the activities to foster spin-offs of space technology and on the **secondary** applications emerging from **their** space activities, as well as the convening of a future seminar on spin-offs in the context of the Programme on Space Applications. The Committee also noted that a document entitled "Spinoff 1988" had been submitted by the United States (COPUOS/1989/CRP.2), which provided an overview of the **activities of NASA** in relation to the item. ~~The~~ Committee further noted a contribution by **FAO** on the spin-off benefits in the agriculture, forestry and fisheries sectors and in the field of environmental protection.

112. Some delegations expressed the view that in considering the **question of** the spin-off benefits of space technology the Committee should **examine** the ways of strengthening and enhancing international co-operation **in** this field through, inter alia the study of the possibilities of providing access to such spin-offs to **all** nation; particularly to developing countries. In that context, attention should be given to those spin-offs which can have an impact by addressing the urgent and pressing social and economic needs of developing countries.

E. Other matters (agenda item 9)

(a) International space year

113. In accordance with paragraph 11 of resolution 43/56, the Committee considered the advisability of the General **Assembl**y, declaring 1992 as international space year. The Committee noted that the Scientific and Technical Sub-Committee had considered, in accordance with the same resolution, recommendations regarding possible activities that might be undertaken during an international space **year** (A/AC.105/429, paras. 87-91).

114. The Committee took note of a working paper by the Soviet Union (A/AC.105/C.1/L.161) and a working paper by the United State~~s~~ (A/AC.105/C.1/L.160), both of which had **been** submitted to the 1989 session of the Scientific and Technical Sub-Committee and outlined possible activities that might be undertaken during an **international space year**.

115. The Committee also took note of the plan⁶ of COSPAR and IAF for celebrating 1992 as international space year with a joint world space congress to be held at Washington and a major programme on "**Mission to Planet Earth**", with an emphasis on the participation **of** all countries, in particular developing **countries**. Some delegations described the role of the Space Agency Forum on International Space Year in planning and organizing for the international space year. The ~~Committee~~ furthermore **noted** the proposal in the context of the International **Geosphere Biosphere Programme** to take up as an international venture a **new** series of polar orbiting satellites called "PEACE" (Protection of Environment for Assuring Cleaner Earth) with appropriate **sensors** for continuous global **monitoring** of the Earth's env'ronment.

116. The Committee **recommended that** the **General** Assembly endorse, in its resolution on international co-operation in the peaceful **uses of outer space**, the **initiative** of international **scientific** organisations and bodies to designate 1992 as international space **year**.

117. The Committee recommended that international co-operation be promoted through the international space year, which should be carried out **for the benefit and in** the interests of all States, taking into particular account the **needs** of developing countries. In that context the training and educational capabilities of the United Nations Programme on Space Applications should be utilised to **bring about a** meaningful role **for** the United **Nations**, through voluntary contribution by Member States and without any impact on the United Nations regular budget **or** the existing programme of work **of** the Programme.

(b) Other

118. The Committee noted with appreciation the participation in its work **and** that of its sub-committees by representatives of United Nations bodies **and** specialised agencies, and found the report they had submitted helpful in enabling the Committee and its subsidiary bodies to fulfil their role as a focal point of international co-operation in the peaceful **uses of** outer space. The Committee also noted with appreciation the participation in its work and that of its sub-committees by the representatives of INTELSAT, INMARSAT, **ESA**, **COSPAR** and IAF. The Committee requested that concerned **organizations** continue to keep it informed of their activities relating to the peaceful use of outer space.

119. The Committee had before it **for** its review and comment draft programme 9, Peaceful uses of outer space of the medium-term plan for the period 1992-1997 (A/AC.105/1989/CRP.1, annex), submitted in accordance with the relevant part of the regulations and rules governing programme planning, the programme aspects of the budget, the monitoring of implementation and the methods of evaluation (ST/SGB/PPBME Rules 1 (1987)). During the Committee's review, editorial changes were suggested to paragraphs 9.2 and 9.7 (iii) of the draft programme.

120. In connection with the draft medium-term plan, the suggestion was also made that it should include a reference to monitoring of the Earth's environment from outer space.

F. Future work

221. The Committee noted the views expressed by the Scientific and Technical Sub-Committee, as contained in paragraph 95 to 97 of its report (A/AC.105/429), and endorsed the recommendations contained in those paragraphs concerning the agenda of the twenty-seventh session of the Sub-Committee.

122. Regarding the agenda of the Legal Sub-Committee, the Committee **recommended** that the Sub-Committee, at its twenty-ninth session, should:

(a) Continue, through its Working Group, the elaboration of draft principles relevant to the **use** of nuclear power sources in outer space;

(b) Continue, through its Working Group, its consideration of matters relating to the definition and delimitation of outer space and to the character and utilisation of the geostationary orbit, including consideration of ways and means to ensure the rational and equitable use of the geostationary orbit without prejudice to the role of ITU;

(c) Continue its consideration of the legal aspects related to the application of the principle that the exploration and utilisation of outer space should be carried out for the benefit and in the interests of all States, taking into particular account the needs of developing countries.

123. The President of the Group of 77, speaking on behalf of the members of the Group in the Committee, expressed the view that the Working Group to be established under agenda item 5 of the Legal Sub-Committee should be established for the twenty-ninth session in 1990.

124. The suggestion was made that the Committee should consider guidelines for granting observer status with the Committee to international organisations,

125. Some delegations expressed the view that the traditional three-week duration and schedule of work of the Legal Sub-Committee did not provide a suitable basis for the Sub-Committee's next session. In their view, adoption of the approach contained in working paper A/AC.105/C.2/L.174 would facilitate progress in the Sub-Committee and would achieve savings in conference service resources. Other delegations felt that the sessions of the Legal Sub-Committee should be maintained at three weeks to allow sufficient time for negotiations on the complex legal issues before the Sub-Committee.

126. The view was expressed that it was necessary to cease the practice of holding alternate sessions of the Legal Sub-Committee at Geneva since there were no discernable benefits to justify either the additional costs incurred by the Organisation or continued exception to the General Assembly principle that United Nations bodies should meet at their headquarters. On the other hand, some delegations expressed the view that the Assembly had drawn up a list of these exceptions and decided that the Legal Sub-Committee should meet every other year at Geneva. Accordingly, only a new decision taken by the General Assembly could amend the present rule. It was noted that it was important to hold the session at Geneva in order to allow European jurists and international organisations based in Europe to participate. The view was also expressed that it would be appropriate to consider reverting to the former practice of having one of the United Nations bodies dealing with outer space hold its meetings at Geneva on an annual basis.

127. Some delegations expressed the view that the Committee should concentrate its work on important issues falling within its mandate and holding out the promise of eventual agreement.

128. The view was expressed that the interaction between the Legal Sub-Committee and the Scientific and Technical Sub-Committee could be reinforced.

129. Some delegation⁶ expressed the view, as outlined in working paper A/AC.105/L.181, submitted by Czechoslovakia and the German Democratic Republic, that in order to improve the activities and enhance the role of the Committee, there should be a substantive and result-oriented consideration of all agenda items, parallel consideration of agenda items, a brief paper prepared by the

Secretariat for the Legal Sub-Committee drawing attention to problems that require legal expertise, more frequent use of informal negotiations and no overlapping of sessions of United Nations bodies dealing with legal issues.

130. The view was expressed that the Principles Governing the Use by States of Artificial Earth Satellites for International Direct Television Broadcasting and the Principle Relating to Remote Sensing of the Earth from Outer Space, which had been adopted by the General Assembly in resolutions 37/92 of 10 December 1982 and 41/65 of 3 December 1986, respectively, should be further elaborated on into conventions by the Committee, particularly with the view of protecting the interests of developing countries.

Notes

1/ Report of the Second United Nations Conference on the Exploration and Peaceful Uses of Outer Space, Vienna, 9-21 August 1982 (A/CONF.101/10 and Corr.1 and 2).

ANNEX

Opening statement by the Chairman of the Committee on the Peaceful Uses of Outer Space

1. May I welcome you **all** most cordially to the thirty-second **session** of the Committee on the Peaceful **Uses** of Outer Space. This **welcome** is extended first and foremost to the delegates of the 53 member **nations** of this Committee, **many** of whom have continued to **offer** invaluable service to **this** body for many years and who have thus become part of a highly motivated part **of** the United Nations family.

2. I also **wish** to welcome **once** again the representatives of many governmental and non-governmental international **organisations**, which over the **years** have **provided** much constructive support to this Committee.

3. I **trust** that **we** are **assembled** here **once** again in a **spirit** of co-operation, **keen** to develop solutions to issues **as** yet unresolved. Indeed much in the international political climate and atmosphere, which has taken **such** a momentous turn toward co-operation and less confrontation for **some** time now, **seems** to favour the work of a Committee that depends much on common political will and a sense of compromise.

4. However, there is yet another, perhaps even **more** compelling reason, another motivation linked **more** immediately to the history of this Committee, that gives **me** **hope**, that inspires **optimism** that this indeed will be a good and productive **meeting**: it will be 30 years this autumn that by resolution 1472 (XIV) of 12 December 1959 the General Assembly established this distinguished body, **recognizing** the **common** interest of mankind in furthering **the** peaceful uses of outer space and believing that the **United Nations** should promote international co-operation in this field,

5. It might **seem** to be an appropriate way therefore to **commemorate** this anniversary by building consensus and achieving progress in areas where success has **so far** eluded the Committee,

6. This should be **easy** if **we** remain mindful of the many tangible advantages that progress **in** space **uses** and exploration **offer** to humanity.

7. Two recent examples clearly illustrate my point: from 20 to 23 November 1988, a devastating flood hit the **southern** part of Thailand. To assess the damage, the Thailand Remote Sensing Centre compared **Landsat** images of the area taken **before** and after the flood and found that the areas affected most by the **flood** were **valley** areas of plains among **mountains**. It was also found that during the four years before the flood there had been much change in land **use** on the slopes and on the mountain **ranges**. Forests had been converted to agricultural lands. When heavy rains, amounting to 680 millimetres, fell for three consecutive days, rubber trees on steep slopes with short roots fell and formed small dams, and when those dams could not retain any more water, the water rushed down with high speed through the low plains.

8. Secondly, the **first** commercial public satellite telephone calls from an **aircraft** were connected via the INMARSAT satellite system on 14 February 1989.

This certainly marks the beginning of a **new era in** communications for airline **passengers** and airline operations the world **over**.

9. Let me now direct your Attention, distinguished delegates, to **some of** the co-operative efforts and technological **advances** made by Member **States** and international organisations in the field of outer space since the time we were Assembled here in 1988,

10. The network of international space co-operation **among** States and international **organizations** has become wider again and many important co-operative efforts deserve to be mentioned. A **new** civilian space **organisation** has been set up by the Government of **Canada**. The **new** Canadian Space **Agency**, which is to be located at **Montreal**, is to provide better co-ordination for the nation's **space** efforts. The **Federal** Republic of **Germany** also decided to establish at Bonn a **civilian** space **agency**, the Deutsche **Agentur für** Raumfahrtangelegenheiten, which will plan, co-ordinate and carry out the space activities of the Federal Republic. Also this year **Canada** joined Europe's Hermes spaceplane programme, **which** is an ambitious project aiming at achieving an initial unmanned flight in mid-1997,

11. In 1988, the Soviet Union orbited 108 space objects in close to 100 launches. Flight tests of the Energiya launch vehicle with the **reusable** spacecraft **Buran** have successfully started, resulting in an **unmanned launch and landing** of the spacecraft. We should also recall the record-breaking flight of two Soviet cosmonauts on board the orbital **space** station **Mir**, who, after **366 days in** space, returned to **Earth** on 22 December 1988. Together with this main crew, three international expeditions, including cosmonauts from Afghanistan, Bulgaria and France, worked on board the **space** station **Mir**, which at the moment is temporarily vacant. After cosmonauts Valery Polyakov, Alexander Volkov and **Sergey** Krikalyov returned to **Earth** in late April 1989.

12. Nevertheless, despite all technological progress, the **success** of space exploration is still a **matter of** uncertainty. This was evident again in the case of the Soviet **Phobos** spacecraft, which had **been** scheduled to rendezvous with Mars and its moon Phobos in early April, but unfortunately radio contact with the spacecraft **was** lost. I do hope that this set-back will stimulate **new** efforts to pursue the **exploration** of the planet Mars.

13. At the same time, these examples and the history of other recent space projects and **space** events clearly indicate the need to place future space programmes in the framework of more international **co-operation**. It is not only constraints of a **financial nature** but indeed the dramatic change in international political atmosphere that should stimulate new thinking in outer space, that should motivate nations to renounce, in the words of a recent editorial of **The New York Times**, "costly competitive extravaganzas" and go into space together.

14. More togetherness in **space** might facilitate new missions to the solar system's most important planet - **Earth** - with **satellites** designed to monitor its **climate** and environment.

15. More togetherness in space might help to orbit telescopes that could view the sky free of **Earth's** distorting atmosphere or launch automated spacecraft to explore other planets.

16. More than **ever before** national space programmes **seem** to be complementary **and** well **suited** to develop joint **missions even to put humans** into space.

17. The **United States** space shuttle programme was successfully resumed on 30 September 1988 **with** the launch **of the space shuttle Discovery**, ending a 32-month period of redesign following **the tragic** Challenger accident **of January 1986**. The space shuttle Discovery **was again** launched into orbit on 14 March 1989 carrying five astronauts who conducted a **series of** scientific experiments **during a five-day flight, including** one experiment testing a process for growing crystals in space. The United States space shuttle Atlantifi, launched on 4 May 1989, deployed the Magellan **Venus radar** mapper, which is expected to arrive at Venus in August 1990, following a 15-month **journey**. Work on the **international space** station Freedom, which is being led **by the United States, is progressing**. On 29 September 1988, the United States, **Canada, Japan and the member States of the European Space Agency (ESA)** signed a multilateral **agreement establishing their co-operation** in the programme. We also note with relief that the two satellites Landsats 4 **and 5** continue in operation, at least for the **time being**.

18. Many other member States of the Committee **launched** new space missions during the last year. On 7 September 1988, **China launched** an experimental meteorological satellite into polar orbit **aboard the CZ-4 vehicle**. On 22 February 1989, Japan launched EXOS-D, a polar orbiting experimental satellite. Pakistan's first satellite, Badr-A, has been completed by the country's Space and Upper Atmosphere Research Commission and is expected to be launched in 1989.

19. While this Committee **is** celebrating the **thirtieth anniversary of its** establishment, at the beginning of April 1989, ESA celebrated its thirtieth **launch** of an **Ariane** rocket **when** the Scandinavian telecommunication **satellite** TELE-X **was** successfully launched into orbit by an Ariane 2 rocket. Earlier in the year, on 6 March, two satellites, MOP-I, a European meteorological **satellite**, and JCSat-1, a **Japanese** telecommunications satellite, were launched on an Ariane 4 rocket.

20. Distinguished delegates, let me now turn to the agenda **items** before the Committee.

21. **AB** in past **years**, the **General Assembly**, at its forty-third **session**, instructed us to consider **as** a matter **of priority** "**ways and means of** maintaining outer space for peaceful purposes" and to report thereon to it at its forty-fourth session.

22. **As** you may recall, the Committee, at its thirty-first session, **once again** recognised the need to **maintain** outer **space** for peaceful purposes and agreed that it could **make** important **contributions** to that end. **a/** It also agreed again that an effective way to maintain outer space for peaceful purposes was to strengthen multilateral, regional and bilateral co-operative activities and to promote specific projects to **assist** all countries, in particular developing countries. This wording, reflecting an earlier agreement at a previous **session** of the Committee **b/** could serve as **a** basis for **discussion**.

23. Before going into detail about the work of the two sub-committees, I should like to express, on behalf of the **Committee**, our deep appreciation to Mr. John H. Carver (Australia), Chairman of the Scientific and Technical Sub-Committee, and to Mr. Stanislav Suja (Czechoslovakia), the new Chairman of the **Legal** Sub-Committee, succeeding Mr. Ludek Handl (Czechoslovakia). The Committee is much indebted to these distinguished Chairmen for the smooth and productive

functioning of its two subsidiary bodies **and** wishes Mr. Handl well in **his** future undertakings.

24. The report of the Scientific and Technical Sub-Committee on its twenty-sixth session **is** before us **in** document A/AC.105/429.

25. The **Sub-Committee**, as it has done over the last three years, combined consideration of the **United Nations** Programme on Space Applications **and** of the implementation of the recommendations **of the Second United Nations** Conference on the Exploration and Peaceful Uses of Outer Space, **since** the **expansion and** reorientation of the Programme on Space Applications **is an integral part of the** implementation of the recommendations **of the Conference**. **In considering these** agenda items, the **Sub-Committee** was well aware of the position of the General **Assembly**, which, at its forty-third session, once again emphasised the urgency and importance of fully implementing the recommendations **of the Conference** held seven years ago. In particular, the General **Assembly** identified four urgent questions for consideration by the Committee.

26. **Thus**, in accordance with resolution 43/56, the Sub-Committee **re-convened the** Working Group of the Whole to evaluate the implementation of the **recommendations of** the Conference. The report of the Working Group is contained in annex II of the **Sub-Committee's** report (A/AC.105/429). **The** Working Group was ably chaired by Mr. Gonzales (Chile).

27. The report **of** the Working Group of the Whole on its third session was adopted **by** the **Sub-Committee** and is now before this Committee **for** action. **As** did its report on its second session, the present report again also contains a number of recommendations calling for **action by Member States, by the Secretariat of the United Nations** and by other international organisations.

28. The Working Group made two recommendations concerning information that the **Committee** should request from Member States or international organizations: firstly, information from Member States and **international organizations** with **space-related** activities in which there could be greater international co-operation **and**, secondly, annual reports on techniques resulting from medical studies carried out in outer space, both requests have been repeated from the 1988 report of the Working Group.

29. The Working Group of the Whole **also recommended that the Outer Space Affairs** Division prepare a report containing an evaluation **of** the methodology for granting **fellowships** offered by the Programme on Space Applications, a report on the arrangements it **has** made with other organs, bodies and organizations of the **United Nations system** in support of the **Programme** and a report indicating which **of** the recommendations of the Conference addressed to the United Nations have not yet been implemented. It further recommended that the Division compile periodically a list of **space** technology experts, update **regularly** the **report on** the resources and technological capabilities of States in the field of space activities and update annually the **report on** existing **training** centres at the regional level. The Working Group of the Whole finally repeated its recommendation made last year that, **the** Division convene, if other priorities permit, a meeting of governmental experts **representing** developed and developing countries regarding the strengthening of data banks at national/regional levels and the establishment of an international space information service.

30. **As I said last year, the exchange of information relating to international space activities is essential** to a broadening of co-operative space efforts between States. Consequently, we are delighted **that the Outer Space Affairs** Division has made further progress in its efforts to develop a space information service, which, in its initial development, will include information **on** space systems and projects, **space** terminology and acronyms, international and national **space** organisations and experts.

31. **The recommendations made by the Working Group of the Whole offer a sound basis** for further progress in the implementation of the recommendations of the Second United Nations Conference. However, I believe that, once information requested by the Working Group of the Whole has **been received**, a careful evaluation of the information should follow. **In other** words, it is not the sheer number of reports **or** studies received that makes progress in the implementation process **possible** but, **more important, a sound analysis** is necessary on the basis of which substantive conclusions **can** be drawn.

32. And to be even more clear let me say **this**: we might use the opportunity of the present session of the Committee to examine our conscience to determine whether indeed we have lived up to the promise of the **Conference** and whether all has been done **to** translate into **action** the vast programme set out **by** that unique event.

33. As in past years, the Scientific and Technical Sub-Committee reviewed the wide range of activities of the Programme on Space Application **and** commended the **results achieved**. It also approved **or** noted the activities proposed for 1989 and 1990 and appealed **to Member States** to support the Programme through voluntary contributions.

34. The Sub-Committee continued its consideration of remote sensing **from outer space** and reiterated its view that remote sensing from outer space should be carried out taking into account the particular needs of the developing countries,

35. Regarding the question of the use of nuclear power sources in outer space, the Sub-Committee re-convened the Working Group on the Use of Nuclear Power Sources in accordance with resolution **43/56**. A strong consensus **seems** to have emerged in **the** Sub-Committee **regarding the usefulness of this Group**. The **report** of the Working Group, which was ably chaired by **Mr. Carver**, is attached as annex III to the report of the Sub-Committee (**A/AC.105/429**). In its report, the Working Group called for the preparation of national research **on** the problem of collision with space debris and proposed **that** delegations submit the results to the Sub-Committee. **It** also made **a series of specific recommendations concerning** safety measures **for the use of** nuclear power sources on board a spacecraft.

36. In this connection, let me draw your attention to the recommendation of the Sub-Committee **addressed to the Committee to** consider the question of allocating to the Working Group at its session in 1990 sufficient time to enable it to study carefully the technical aspects of **this** item.

37. A final remark concerning this matter: in considering the further relation between space exploration, on the **one** hand, and nuclear power sources, on the other, the Committee is certainly **addressing** one of the **most** sensitive issues **at** present on its agenda. While nuclear reactors have certainly powered **some** of the most dramatic ventures in deep **space**, serious risks continue to attach to their **uses** in Earth orbit.

38. It is for this reason that the Committee bears a heavy responsibility in efforts to create a new and safer régime for the future use of nuclear power sources. Not only Governments but also public opinion in many countries will certainly see success or failure in this respect as a measure of our credibility.

39. Regarding questions relating to space transportation systems, the Sub-Committee reviewed the national and co-operative programmes in space transportation systems.

40. On the question relating to the examination of the physical nature and technical attributes of the geostationary orbit, as well as other questions relating to space communication developments, however, little progress was achieved. This is not the first time that we have to record a lack of progress on this issue. The Committee may wish to reflect on how substantive achievement might be possible in the future.

41. This had been the third year that the Sub-Committee has discussed, as agenda items, a number of scientific matters, matters relating to life sciences, including space medicine, progress in the geosphere-biosphere (global change) programme, matters relating to planetary exploration and to astronomy. The official theme for the 1989 session was: "Space technology as an instrument for combating environmental problems, particularly those of developing countries",

42. As in previous years, a number of most valuable and interesting technical presentations on the theme were given by specialists in the form of a symposium organized by the Committee on Space Research (COSPAR) and the International Astronautical Federation (IAF). To continue these very informative and successful annual discussions on specific aspects of space technology and applications, the Sub-Committee proposed as a theme for its next session; "The use of space technology in terrestrial search and rescue and in disaster relief activities". The support of COSPAR and IAF is again requested to organise a symposium on this theme as well as a special presentation on progress in the geosphere-biosphere (global change) programme, As in the past, I am sure that these recommendations will be considered favourably by the Committee.

43. In this connection, the Committee wishes to express its gratitude and appreciation to COSPAR and IAF for the invaluable assistance they are rendering to the Committee's scientific work. It also appears appropriate to mention the final COSPAR/IAF report on environmental effects of space activities (A/AC.105/420), which was well received by the Sub-Committee.

44. The Legal Sub-Committee re-convened its Working Group on the Use of Nuclear Power Sources in Outer Space, which was ably chaired by Mr. Winkler (Austria). It continued its elaboration of draft principles relevant to the use of nuclear power sources in outer space and made considerable progress by reaching consensus on the text of two important draft principles relating to consultation and the settlement of disputes, and coming close to consensus on three other principles. Although the Working Group continues to be divided on three interrelated principles, principle 2 (notification of the presence of nuclear power sources on board a space object), principle 3 (guidelines and criteria for safe use) and principle 4 (safety assessment), it might be possible now to resolve these differences and to conclude the Working Group's work on all draft principles without much delay: perhaps we can make further progress at the present session of the Committee.

45. The re-convened Working Group of the Legal Sub-Committee on the definition and delimitation of outer space and the geostationary orbit, under the able chairmanship of Mr. Lagorio (Argentina), was re-established. A number of informal proposals were put forward on which Member States held some discussions, particularly regarding the rational and equitable utilisation of the geostationary orbit. These new ideas presented should serve as a basis to invigorate the work of the Working Group, which could not record any substantive progress at its session in 1909. It is my hope that the Committee might be able to provide further guidance on the matter.

46. As requested by the General Assembly in its resolution 43/56, the Legal Sub-Committee took up the consideration of the new item on legal aspects related to the application of the principle that the exploration and utilisation of outer space should be carried out for the benefit and the interests of all States, taking into particular account the needs of developing countries. As expected, discussions proved difficult under the new item. After extensive consultations it was possible for the Sub-Committee to record consensus on a compromise proposal regarding the method of work under this new item and a timetable for the establishment of a working group under it. This I consider to be a very encouraging beginning for the consideration of this new item, and it also reflects the renewed commitment of all members to make progress in our work. The Sub-Committee recommended furthermore that the General Assembly request the Secretary-General to seek the views of Member States, prior to the 1990 session of the Sub-Committee, on international agreements that Member States have entered into that are relevant to the principle referred to in the agenda item. I am sure that these recommendations will be received favourably by the Committee.

47. Concerning the question of an international space year, I remind you, distinguished delegates, of a decision, taken by this Committee at its session in 1988 and endorsed by the General Assembly in paragraph 11 of resolution 43/56, that the Committee at its present session should consider the advisability of the Assembly declaring 1992 as international space year. a/ The Assembly recommended that the Committee urge Member States to consider supporting additional scientific and technical activities related to an international space year within the United Nations system through voluntary contributions, which should be complementary to those being developed by relevant international organisations. As you are aware, a number of governmental and non-governmental organizations are very active in setting up a schedule of activities for an international space year. In this connection, I wish to draw your attention to a proposal of which the United Nations has been informed and which was put forward by India in the spirit of an international space year and in the context of the International Geosphere Biosphere Programme to take up a new series of polar orbiting satellites called "PEACE" (Protection of Environment for Assuring Cleaner Earth) as an international venture with appropriate sensors for continuous global monitoring of the Earth's environment. Proposals brought forth in response to the request by the General Assembly in its resolution 43/56 include, inter alia, the hosting of an international conference by the United States in conjunction with the Programme on Space Applications on the subject of space remote sensing and global change, anti, the part of the Soviet Union, the organization of a conference with the participation of foreign scientists and specialists on the subject "Outer space and global problems of mankind". It is certainly timely for the Committee to consider what the United Nations role should be regarding the question of an international space year.

48. I continue to believe that the United Nations is called upon to play a significant role in this exciting project, whose significance for the future protection of the Earth's environment against destructive influences can hardly be overstated.

49. Before concluding, let me mention that, as you are aware, the Committee will have a new item on the agenda of its present session entitled "Spin-off benefits of space technology: review of current status", and that the provisional schedule of work has been adjusted to take this into account,

50. Let me now conclude this opening statement. While the subsidiary bodies of this Committee have made some substantive progress on issues such as the use of nuclear power sources in outer space, tangible results are still lacking in many areas of work of the Committee. Let me, distinguished delegates, therefore encourage you to make this session a memorable one, let me encourage you to go ahead together, in the spirit of the thirtieth anniversary of this body.

51. Let me remind you that this Committee has a unique and perhaps increasing responsibility in promoting international co-operation in the peaceful uses and exploration of outer space, being to this day the only body in the United Nations system that deals exclusively with matters of outer space,

52. Thirty years ago this Committee was set up to be an agent of progress and of change, whether in scientific, in technical or legal matters related to the peaceful uses and applications of outer space. It was not created simply to become a gear in a big machine,

53. I continue to believe that one of the most vital and most central tasks of the Committee will be its role in bridging the scientific and technological gap between those nations which have space exploration programmes and those which have none. It is here in this body that we can decide on the necessary political steps to be taken in order to address this specific problem with a view to avoiding conflict and friction between North and South.

54. However, I consider it to be no less vital a task of the Committee to encourage a new spirit of co-operation between East and West in outer space matters, helping the major space Powers to write together a new chapter in outer space relations that will be characterized by the absence of the old rivalries and by the presence of a new sense of common purpose, perhaps also a sense of service to the world community of nations,

55. We might therefore need not only much new political will but an increased sense of urgency in order to make further progress in our work.

56. Some of the instruments, some of the machinery for this purpose are already in our hands: the United Nations Programme on Space Applications comes to mind as well as some other structures characterized less by their vast bureaucratic nature or over-abundant budgetary resources than by much good will and splendid human resources.

57. I further believe that purposeful pooling of our resources, of our energies and our ideas into the exciting venture that will be the international space year 1992 will furnish another opportunity to approach our aim.

58. Let us therefore resolve to remain, as before, a good and a meaningful part of the United Nations, but let us also remain ambitious and dedicated, motivated by an ideal that over the years has served us so well: the maintenance of outer space for peaceful purposes.

Notes

a/ See Official Records of the General Assembly, Forty-third Session, Supplement No. 20 (A/43/20).

b/ Ibid., Forty-second Session, Supplement No. 20 (A/42/20), para. 17.

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