INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION SECTOR

CONFERENCE PREPARATORY MEETING

ISTANBUL, 7 - 8 JUNE 2000

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Director, Radiocommunication Bureau

Please find attached the table of allocations of ITU-R preparatory work for the 2003 World Radiocommunication Conference.

Annex: 1

ANNEX

Allocations of ITU-R preparatory work for the 2003 World Radiocommunication Conference

Topic	Responsible Group	Action to be taken by the ITU-R Study Group	Concerned Group
1.1 requests from administrations to delete their country footnotes or to have their country name deleted from footnotes, if no longer required, in accordance with Resolution **26 (Rev.WRC-97)**;			
Resolution **26 (Rev.WRC-97)** Footnotes to the Table of Frequency Allocations in Article **S5** of the Radio Regulations		No action	
1.2 to review and take action, as required, on No. **S5.134** and related Resolutions **517 (Rev.WRC-97)** and **537 (WRC-97)** and Recommendations **515 (Rev.WRC-97)**, **517 (Rev.WRC-2000)**, **519 (WARC-92)** and Appendix **S11**, in the light of the studies and actions set out therein, having particular regard to the advancement of new modulation techniques, including digital techniques, capable of providing an optimum balance between sound quality, bandwidth and circuit reliability in the use of the HF bands allocated to the broadcasting service;			
Resolutions **517 (Rev.WRC-97)** Transition from double-sideband to single-sideband or other spectrum-efficient modulation techniques in the high-frequency bands between 5 900 kHz and 26 100 kHz allocated to the broadcasting service		to continue its studies on digital techniques in HF broadcasting as a matter of urgency with a view to the development of this technology for future use,	SG 6, SC
Resolution **537 (WRC-97)** Survey of HF broadcasting transmitter and receiver statistics as called for in Resolution **517 (Rev.WRC-97)**		No action	
Recommendation **515 (Rev.WRC-97)** Introduction of high-frequency broadcasting transmitters and receivers. capable of operation with spectrum-efficient modulation techniques		to complete its studies on receivers for spectrum-efficient modulation techniques,	
Recommendation **517 (Rev.WRC-2000)** Relative RF protection ratio values for single-sideband (SSB) emissions in the HF bands allocated exclusively to the broadcasting service		to continue to study the values of relative RF protection ratio for the different cases and frequency separations covered in the Annex to this Recommendation,	

Recommendation **519 (WARC-92)** Introduction of single-sideband (SSB) emissions and possible advancement of the date for cessation of the use of double-sideband (DSB) emissions in the HF bands allocated to the broadcasting service		No action	
1.3 to consider identification of globally/regionally harmonized bands, to the extent practicable, for the implementation of future advanced solutions to meet the needs of public protection agencies, including those dealing with emergency situations and disaster relief, and to make regulatory provisions, as necessary, taking into account Resolution **[GT PLEN-2/5] (WRC-2000)**;			
Resolution **[GT PLEN-2/5] (WRC-2000)** Global harmonization of spectrum for public protection and disaster relief		1 to study, as a matter of urgency, identification of frequency bands that could be used on a global/regional basis by administrations intending to implement future solutions for public protection agencies and organizations, including those dealing with emergency situations and disaster relief; 2 to study, as a matter of urgency, regulatory provisions necessary for identifying globally/regionally harmonized frequency bands for such purposes; 3 to conduct studies for the development of a resolution identifying the technical and operational basis for global cross-border circulation of radiocommunication equipment in emergency and disaster relief situations,	SG 8
1.4 to consider the results of studies related to Resolution **114 (WRC-95)**, dealing with the use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to non-GSO MSS feeder links), and review the allocations to the aeronautical radionavigation service and the fixed-satellite service in the band 5 091-5 150 MHz;			
Resolution **114 (WRC-95)** Use of the band 5 091-5 150 MHz by the fixed-satellite service (Earth-to-space) (limited to feeder links of the non-geostationary mobile-satellite service)		1 to study the technical and operational issues relating to sharing of this band between the aeronautical radionavigation service and the fixed-satellite service providing feeder links of the non-GSO mobile-satellite service (Earth-to-space); 2 to bring the results of these studies to the attention of WRC-03,	SGs 4, 8
1.5 to consider, in accordance with Resolution **[GT PLEN-2/1] (WRC-2000)**, regulatory provisions and spectrum requirements for new and additional allocations to the mobile, fixed, Earth exploration-satellite and space research services, and to review the status of the radiolocation service in the frequency range 5 150-5 725 MHz, with a view to upgrading it, taking into account the results of ITU-R studies;			

Resolution **[GT PLEN-2/1] (WRC-2000)** Consideration by a future competent world radiocommunication conference of issues dealing with allocations to the mobile, fixed, radiolocation, Earth exploration-satellite (active), and space research (active) services in the frequency range 5 150-5 725 MHz		*resolves* that, on proposals from administrations and taking into account the results of studies in ITU-R and the Conference Preparatory Meeting, [WRC-03] should consider: 1 allocation of frequencies to the mobile service in the bands 5 150-5 350 MHz and 5 470-5 725 MHz for the implementation of wireless access systems including RLANs; 2 a possible allocation in Region 3 to the fixed service in the band 5 250-5 350 MHz, while fully protecting the worldwide Earth exploration-satellite (active) and space research (active) services; 3 additional primary allocations for the Earth exploration-satellite service (active) and space research service (active) in the frequency range 5 460-5 570 MHz; 4 review, with a view to upgrading, of the status of frequency allocations to the radiolocation service in the frequency range 5 350-5 650 MHz, *invites ITU-R* to conduct, and complete in time for [WRC-03], the appropriate studies leading to technical and operational recommendations to facilitate sharing between the services referred to in the *resolves* and existing services.	SGs 7, 8, 9
1.6 to consider regulatory measures to protect feeder links (Earth-to-space) for the mobile-satellite service which operate in the band 5 150-5 250 MHz, taking into account the latest ITU-R Recommendations (for example, Recommendations ITU-R S.1426, ITU-R S.427 and ITU-R M.1454);			
			SGs 4, 7, 8
1.7 to consider issues concerning the amateur and amateur-satellite services: 1.7.1 possible revision of Article **S25**;			
Article **S25** Amateur services			SG 8, SC
1.7.2 review of the provisions of Article **S19** concerning the formation of call signs in the amateur services in order to provide flexibility for administrations;			

Article **S19** Identification of stations			SG 8, SC
1.7.3 review of the terms and definitions of Article **S1** to the extent required as a consequence of changes made in Article **S25**;			
Article **S1** Terms and definitions			SG 8, SC
1.8 to consider issues related to unwanted emissions: 1.8.1 consideration of the results of studies regarding the boundary between spurious and out-of-band emissions, with a view to including the boundary in Appendix **S3**;			
Recommendation 66 (Rev.WRC-2000) Studies of the maximum permitted levels of unwanted emissions		4 study the reasonable boundary of spurious emissions and out-of-band emissions with a view to defining such a boundary in Article **S1**;	SG 1, SC
1.8.2 consideration of the results of studies, and proposal of any regulatory measures regarding the protection of passive services from unwanted emissions, in particular from space service transmissions, in response to *recommends* 5 and 6 of Recommendation **66 (Rev.WRC-2000)**;			
Recommendation 66 (Rev.WRC-2000) Studies of the maximum permitted levels of unwanted emissions		5 study those frequency bands and instances where, for technical or operational reasons, more stringent spurious emission limits than the general limits in Appendix **S3** may be required to protect safety services and passive services such as radio astronomy, and the impact on all concerned services of implementing or not implementing such limits; 6 study those frequency bands and instances where, for technical or operational reasons, out-of-band limits may be required to protect safety services and passive services such as radio astronomy, and the impact on all concerned services of implementing or not implementing such limits; 8 report the results of these studies to a competent world radiocommunication conference(s).	SGs 1, 3, 4, 6, 7, 8, 9 SC
1.9 to consider Appendix **S13** and Resolution **331 (Rev.WRC-97)** with a view to their deletion and, if appropriate, to consider related changes to Chapter SVII and other provisions of the Radio Regulations, as necessary, taking into account the continued transition to and introduction of the Global Maritime Distress and Safety System (GMDSS);			
Resolution **331 (Rev.WRC-97)** Transition to the Global Maritime Distress and Safety System (GMDSS) and continuation of the distress and safety provisions in Appendix **S13**		*invites Radiocommunication Study Group 8* to review the operational and procedural incompatibilities between the old and new systems with a view to presenting the information to WRC-03.	SG 8, SC

<table>
<tr><td colspan="4">1.10 to consider the results of studies, and take necessary actions, relating to:
1.10.1 exhaustion of the maritime mobile service identity numbering resource (Resolution 344 (WRC-97));</td></tr>
<tr><td>Resolution 344 (WRC-97)
Exhaustion of the maritime mobile service identity numbering resource</td><td></td><td>1 to keep under review the Recommendations for assigning MMSIs, with a view to identifying alternative resources before the resources are exhausted;
2 to consult each other when addressing changes to any of the Recommendations affecting the MMSI numbering resources;
3 to complete studies on an urgent basis when a future world radiocommunication conference identifies the impending exhaustion of the MMSI resource,</td><td>SG 8, SC</td></tr>
<tr><td colspan="4">1.10.2 shore-to-ship distress communication priorities (Resolution 348 (WRC-97));</td></tr>
<tr><td>Resolution 348 (WRC-97)
Studies required to provide priority to distress communications originated by shore-based search and rescue authorities</td><td></td><td>recognizing
a) that life and property may be lost if rapid access is not provided for distress related communications originated by the rescue authority;
b) that the International Maritime Organization (IMO) has considered this problem and decided that provisions are necessary for giving priority to shore-originated distress communications;
c) that Inmarsat is currently studying how to provide such priority communications,
resolves to invite
1 ITU-R to monitor the status of these studies and to develop suitable Recommendations;</td><td>SG 8, SC</td></tr>
<tr><td colspan="4">1.11 to consider possible extension of the allocation to the mobile-satellite service (Earth-to-space) on a secondary basis in the band 14-14.5 GHz to permit operation of the aeronautical mobile-satellite service as stipulated in Resolution 216 (Rev.WRC-2000);</td></tr>
<tr><td>Resolution 216 (Rev.WRC-2000)
Possible broadening of the secondary allocation to the mobile-satellite service (Earth-to-space) in the band 14-14.5 GHz to cover aeronautical applications</td><td></td><td>c) that the band 14-14.5 GHz is also allocated to the fixed-satellite (Earth-to-space), radionavigation, fixed and mobile, except aeronautical mobile, services;
to complete in time for WRC-03 the technical and operational studies on the feasibility of sharing of the band 14-14.5 GHz between the services referred to in considering c) above and the aeronautical mobile-satellite service, with the latter service on a secondary basis,</td><td>SC 4, 8, 9</td></tr>
</table>

<table>
<tr><td colspan="4">1.12 to consider allocations and regulatory issues related to the space science services in accordance with Resolution 723 (Rev.WRC-2000) and to review all Earth exploration-satellite service and space research service allocations between 35 and 38 GHz, taking into account Resolution [COM5/1] (WRC-2000);</td></tr>
<tr><td>Resolution 723 (Rev.WRC-2000)

Consideration by a future competent world radiocommunication conference of issues dealing with allocations to science services</td><td></td><td>resolves

to recommend that WRC-03 consider the following matters:

1) provision of up to 3 MHz of frequency spectrum for the implementation of telecommand links in the space research and space operations services in the frequency range 100 MHz to 1 GHz;
2) to consider incorporating in the Table of Frequency Allocations the existing primary allocation to the space research service in the band 7 145-7 235 MHz under No. S5.460;
3) to review the allocations to the space research service (deep space) (space-to-Earth) and the inter-satellite service, taking into account the coexistence of these two services in the frequency range 32-32.3 GHz, with a view to facilitating satisfactory operation of these services;
4) to review existing allocations to space science services near 15 GHz and 26 GHz, with a view to accommodating wideband space-to-Earth space research applications,

invites ITU-R

to complete the necessary studies, as a matter of urgency, taking into account the present use of allocated bands, with a view to presenting, at the appropriate time, the technical information likely to be required as a basis for the work of the conference,</td><td>SC 6, 7, 8, 9

SC 7, 8, 9

SC 4, 7, 9

SC 4, 7, 8, 9</td></tr>
<tr><td>Resolution [COM5/1] (WRC-2000)

Use of the frequency band 35.5-35.6 GHz by spaceborne precipitation radars</td><td></td><td>1 to invite ITU-R to study sharing between spaceborne precipitation radars and other services in the band 35.5-35.6 GHz;

2 to recommend that WRC-03 review the results of those studies and consider the removal of the restriction currently contained in No. S5.551A on spaceborne precipitation radars operating in the Earth exploration-satellite service in the band 35.5-35.6 GHz.</td><td>SC 4, 7, 8, 9</td></tr>
</table>

1.13 to consider regulatory provisions and possible identification of existing frequency allocations for services which may be used by high altitude platform stations, taking into account No. **S5.5RRR** and the results of the ITU-R studies conducted in accordance with Resolutions **122 (Rev.WRC-2000)** and **[COM5/14] (WRC-2000)**;			
Resolution **122 (Rev.WRC-2000)** Use of the bands 47.2-47.5 GHz and 47.9-48.2 GHz by high altitude platform stations (HAPS) in the fixed service and by other services and the potential use of bands in the range 18-32 GHz by HAPS in the fixed service		*j)* that technical studies have been undertaken on the characteristics of a system using HAPS in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz and on the coordination and sharing requirements between systems using HAPS and systems in the conventional fixed service, radio astronomy and in other services, but that further studies are still in progress on the potential for interference between such systems; 1 to study the regulatory provisions that might be needed in order to address those cases where the deployment of HAPS in the territory of one administration may affect neighbouring administrations; 2 to continue to carry out studies on the appropriate technical sharing criteria for the situations referred to in *considering j)* above; 3 to conduct studies, as a matter of urgency, and taking into account the requirements of other fixed-service systems and other services, on the feasibility of identifying suitable frequencies, in addition to the 2 x 300 MHz paired band at 47 GHz, for the use of HAPS in the fixed service in the range 18-32 GHz in Region 3, focusing particularly, but not exclusively, on the bands 27.5-28.35 GHz and 31.0-31.3 GHz,	SC SGs 7, 9 SGs 4, 7, 9
Resolution **[COM5/14] (WRC-2000)** Feasibility of use by high altitude platform stations in the fixed and mobile services in the frequency bands above 3 GHz allocated exclusively for terrestrial radiocommunication		to carry out, as a matter of urgency, regulatory and technical studies to determine the feasibility of facilitating systems using HAPS in the fixed and mobile services in bands above 3 GHz allocated exclusively by the Table of Frequency Allocations or by footnotes for terrestrial radiocommunication, taking account of existing use and future requirements in these bands, and any impact on allocations in adjacent bands,	SGs 8, 9

1.14 to consider measures to address harmful interference in the bands allocated to the maritime mobile and aeronautical mobile (R) services, taking into account Resolutions **207 (Rev.WRC-2000)** and **[COM5/12] (WRC-2000)**, and to review the frequency and channel arrangements in the maritime MF and HF bands concerning the use of new digital technology, also taking into account Resolution **347 (WRC-97)**;			
Resolution **207 (Rev.WRC-2000)** Measures to address unauthorized use of and interference to frequencies in the bands allocated to the maritime mobile service and to the aeronautical mobile (R) service		1 to study possible technical and regulatory solutions to assist in the mitigation of interference to operational distress and safety communications in the maritime mobile service and aeronautical mobile (R) service; 2 to increase regional awareness of appropriate practices in order to help mitigate interference in the HF bands, especially on distress and safety channels; 3 to report the results of the above studies to the next competent conference,	SG 8
Resolution **[COM5/12] (WRC-2000)** Study on interference caused to the distress and safety frequencies 12 290 kHz and 16 420 kHz by routine calling		1 to invite ITU-R to study the interference to the distress and safety frequencies 12 290 kHz and 16 420 kHz caused by routine calling on channels 1221 and 1621; 2 to instruct the Radiocommunication Bureau, in consultation with administrations, to organize monitoring programmes for the support of these studies; 3 to urge administrations to participate actively in these studies; 4 to invite ITU-R to complete these studies in time for consideration by WRC-03; 5 to invite WRC-03 to consider this issue,	SG 8
Resolution **347 (WRC-97)** Use of digital telecommunication technologies in the MF and HF bands by the maritime mobile service		No action; abrogated by WRC-97	SG 8
1.15 to review the results of studies concerning the radionavigation-satellite service in accordance with Resolutions **[COM5/16] (WRC-2000)**, **[COM5/19] (WRC-2000)** and **[COM5/20] (WRC-2000)**;			
Resolution **[COM5/16] (WRC-2000)** Studies on compatibility between the radionavigation-satellite service (space-to-Earth) operating in the frequency band 5 010-5 030 MHz and the radio astronomy service operating in the band 4 990-5 000 MHz		1 to conduct, or continue to conduct, as a matter of urgency and in time for consideration by WRC-03, the appropriate technical, operational and regulatory studies to review the provisional pfd limit concerning the operation of space stations, including the development of a methodology for calculating the aggregate power levels in order to ensure that the RNSS (space-to-Earth) in the band 5 010-5 030 MHz will not cause interference detrimental to the RAS in the band 4 990-5 000 MHz; 2 to report to CPM-03 on the conclusions of these studies,	SGs 7, 8

Resolution **[COM5/19] (WRC-2000)** Use of the frequency band 1 164-1 215 MHz by systems of the radionavigation-satellite service (space-to-Earth)		to conduct, as a matter of urgency and in time for WRC-03, the appropriate technical, operational and regulatory studies on the overall compatibility between the radionavigation-satellite service and the aeronautical radionavigation service in the band 960-1 215 MHz, including an assessment of the need for an aggregate power flux-density limit, and revision, if necessary, of the provisional pfd limit given in No. **S5.328A** concerning the operation of radionavigation-satellite service (space-to-Earth) systems in the frequency band 1 164-1 215 MHz,	SG 8
Resolution **[COM5/20] (WRC-2000)** Use of the frequency band 1 215-1 300 MHz by systems of the radionavigation-satellite service (space-to-Earth)		to conduct, as a matter of urgency and in time for WRC-03, the appropriate technical, operational and regulatory studies, including an assessment of the need for a power flux-density limit concerning the operation of radionavigation-satellite service (space-to-Earth) systems in the frequency band 1 215-1 300 MHz in order to ensure that the radionavigation-satellite service (space-to-Earth) will not cause harmful interference to the radionavigation and the radiolocation services,	SG 8
1.16 to consider allocations on a worldwide basis for feeder links in bands around 1.4 GHz to the non-GSO MSS with service links operating below 1 GHz, taking into account the results of ITU-R studies conducted in response to Resolution **127 (Rev.WRC-2000)**, provided that due recognition is given to the passive services, taking into account No. **S5.340**;			
Resolution **127 (Rev.WRC-2000)** Studies relating to consideration of allocations in bands around 1.4 GHz for feeder links of the non-geostationary-satellite systems in the mobile-satellite service with service links operating below 1 GHz		1 to continue studies, and to carry out additional tests and demonstrations to validate the studies on operational and technical means to facilitate sharing, in portions of the band 1 390-1 393 MHz, between existing and currently planned services and feeder links (Earth-to-space) for non-GSO MSS systems with service links operating below 1 GHz; 2 to carry out additional tests and demonstrations to validate the studies on operational and technical means to facilitate sharing, in portions of the band 1 429-1 432 MHz, between existing and currently planned services and feeder links (space-to-Earth) for non-GSO MSS systems with service links operating below 1 GHz; 3 to carry out additional studies, including the measurement of emissions from equipment that would be employed in operational systems to protect passive services in the band 1 400-1 427 MHz from unwanted emissions from feeder links near 1.4 GHz for non-GSO MSS systems with service links operating below 1 GHz;	SG 8, 9 SGs 7, 8, 9 SGs 7, 8
1.17 to consider upgrading the allocation to the radiolocation service in the frequency range 2 900-3 100 MHz to primary;			
			SG 8, SC

1.18 to consider a primary allocation to the fixed service in the band 17.3-17.7 GHz for Region 1, taking into account the primary allocations to various services in all three Regions;			
			SGs 4, 6, 9
1.19 to consider regulatory provisions to avoid misapplication of the non-GSO FSS single-entry limits in Article **S22** based on the results of ITU-R studies carried out in accordance with Resolution **[COM5/2] (WRC-2000)**;			
Resolution **[COM 5/2] (WRC-2000)** Criteria and process for the resolution of possible cases of misapplication of non-GSO FSS single-entry limits in Article **S22**		as a matter of urgency, and in time for consideration by WRC-03, to conduct technical studies and develop regulatory procedures to avoid misapplication of the single-entry limits included in Tables **S22-1**, **S22-2** and **S22-3** of Article **S22**,	SGs 4, SC
1.20 to consider additional allocations on a worldwide basis for the non-GSO MSS with service links operating below 1 GHz, in accordance with Resolution **214 (Rev.WRC-2000)**;			
Resolution **214 (Rev.WRC-2000)** Sharing studies relating to consideration of the allocation of bands below 1 GHz to the non-geostationary mobile-satellite service		1 to study and develop Recommendations on, as a matter of urgency, the performance requirements, sharing criteria and technical and operational issues relating to sharing between existing and planned systems of allocated services and non-GSO MSS below 1 GHz; 2 to carry out studies, as a matter of urgency, in preparation for WRC-03, having regard to *noting c)*; 3 as a matter of urgency, to carry out studies in preparation for WRC-03 with respect to interference mitigation techniques, such as the dynamic channel activity assignment system described in Recommendation ITU-R M.1039, necessary to permit the continued development of all of the services to which the bands are allocated; 4 to bring the results of these studies to the attention of WRC-03 and the relevant preparatory meetings,	All

<table>
<tr><td colspan="4">1.21 to consider progress of the ITU-R studies concerning the technical and regulatory requirements of terrestrial wireless interactive multimedia applications, in accordance with Resolution [GT PLEN-2/2] (WRC-2000), with a view to facilitating global harmonization;</td></tr>
<tr><td>Resolution [GT PLEN-2/2] (WRC-2000)

Review of spectrum and regulatory requirements to facilitate worldwide harmonization of emerging terrestrial wireless interactive multimedia applications</td><td></td><td>1 to pursue its studies to facilitate the development of common, worldwide allocations or identification of spectrum suitable for new terrestrial wireless interactive multimedia technologies and applications;

2 to review regulatory methods and appropriate means of worldwide spectrum identification in order to facilitate the harmonization of emerging terrestrial wireless interactive multimedia systems for the instant and flexible implementation of universal personal services;

3 to review, if necessary, service definitions in the light of convergence of applications;

4 to report to a future competent conference,</td><td>SGs 6, 8, 9</td></tr>
<tr><td colspan="4">1.22 to consider progress of ITU-R studies concerning future development of IMT-2000 and systems beyond IMT-2000, in accordance with Resolution [GT PLEN-2/3] (WRC-2000);</td></tr>
<tr><td>Resolution [GT PLEN-2/3] (WRC-2000)

Studies to consider requirements for the future development of IMT-2000 and systems beyond IMT-2000 as defined by ITU-R</td><td></td><td>1 to invite ITU-R to continue studies on overall objectives, applications and technical and operational implementation, as necessary, for the future development of IMT-2000 and systems beyond IMT-2000;

2 to invite ITU-R to study the spectrum requirements and potential frequency ranges suitable for the future development of IMT-2000 and systems beyond IMT-2000, and in what time-frame such spectrum would be needed;

3 that the requirements for the future development of IMT-2000 and systems beyond IMT-2000 be reviewed by WRC-05/06, taking into consideration the results of ITU-R studies presented to WRC-03,</td><td>SG 8</td></tr>
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<table>
<tr><td colspan="4">1.23 to consider realignment of the allocations to the amateur, amateur-satellite and broadcasting services around 7 MHz on a worldwide basis, taking into account Recommendation 718 (WARC-92);</td></tr>
<tr><td>Recommendation 718 (WARC-92)

Alignment of allocations in the 7 MHz band allocated to the amateur service</td><td></td><td>recommends

that, as a matter of urgency, studies should be carried out on the technical characteristics, including pointing techniques of multiservice satellite networks using the geostationary-satellite networks encompassing mobile-satellite and fixed-satellite applications, and the sharing criteria necessary for compatibility with the fixed-satellite service in the frequency bands referred to above,

invites ITU-R

to carry out these studies,</td><td>SGs 6, 8</td></tr>
<tr><td colspan="4">1.24 to review the usage of the band 13.75-14 GHz, in accordance with Resolution [COM5/10] (WRC-2000), with a view to addressing sharing conditions;</td></tr>
<tr><td>Resolution [COM 5/10] (WRC-2000)

Review of sharing conditions between services in the band 13.75-14 GHz</td><td></td><td>1 to conduct studies, as a matter of urgency and in time for consideration by WRC-03, on the sharing conditions indicated in Nos. S5.502 and S5.503, with a view to reviewing the constraints in No. S5.502 regarding the minimum antenna diameter of GSO FSS earth stations and the constraints on the e.i.r.p. of the radiolocation service;

2 to identify and study, in time for consideration by WRC-03, possible alternative sharing conditions to those indicated in Nos. S5.502 and S5.503.</td><td>SGs 4, 7, 8</td></tr>
<tr><td colspan="4">1.25 to consider, with a view to global harmonization to the greatest extent possible, having due regard to not constraining the development of other services, and in particular of the fixed service and broadcasting-satellite service, regulatory provisions and possible identification of spectrum for high-density systems in the fixed-satellite service above 17.3 GHz, focusing particularly on frequency bands above 19.7 GHz;</td></tr>
<tr><td></td><td></td><td></td><td>SGs 4, 6, 7, 8, 9</td></tr>
<tr><td colspan="4">1.26 to consider the provisions under which earth stations located on board vessels could operate in fixed-satellite service networks, taking into account the ITU-R studies in response to Resolution [COM4/3] (WRC-2000);</td></tr>
</table>

Resolution **[COM4/3] (WRC-2000)** Provisions relating to earth stations located on board vessels which operate in fixed-satellite service networks in the bands 3 700-4 200 MHz and 5 925-6 425 MHz		1 to invite ITU-R to continue to study, as a matter of urgency, the regulatory, technical and operational constraints to be applied to ESV operations, having regard to the provisional guidelines for ESV use in Annex 1 and the provisional technical guidelines given in Annex 2 and, in particular, to determine the appropriate value for the minimum distance from ESV stations beyond which these stations are assumed not to have the potential to cause unacceptable interference to stations of other services of any administration and beyond which no coordination would be required; 2 to invite ITU-R, as a matter of urgency: – to develop Recommendations on methods for coordination between terrestrial services and ESVs; – to study the feasibility of mitigation techniques, such as various frequency arrangements or dual-band systems, as a way to avoid the need for detailed coordination of ESVs without constraining existing services; – to study, as a complement to the 3 700-4 200 MHz and 5 925-6 425 MHz bands, the use of other FSS allocations for ESVs transmitting in the 6 GHz and 14 GHz bands;	SGs 4-9S, SC
1.27 to review, in accordance with Resolutions **[GT PLEN-1/1] (WRC-2000)** and **[GT PLEN-1/3] (WRC-2000)**, the ITU-R studies requested in those resolutions, and modify, as appropriate, the relevant regulatory procedures and associated sharing criteria contained in Appendices **S30** and **S30A** and in the associated provisions;			
Resolution **[GT PLEN-1/1] (WRC-2000)** Application and study of the regulatory procedures and associated sharing criteria contained in Appendices **S30** and **S30A** and in the associated provisions of Articles **S9** and **S11**		to undertake, as a matter of urgency, additional studies and complete them by [WRC-03] on: 1 the sharing criteria in Annexes 1, 3, 4 and 6 to Appendix **S30** and Annexes 1 and 4 to Appendix **S30A**, except the criteria referred to in *considering b)* and *c)*, taking into account *considering g)* and *h)* and *recognizing a)*; 2 review the changes made by WRC-2000 to the regulatory procedures contained in: *a)* Articles 4 and 5 to Appendices **S30** and **S30A** with a view to establishing a list of additional uses for Regions 1 and 3 and providing for its implementation; *b)* Articles 6 and 7 to Appendices **S30** and **S30A**, including related modifications to Articles **S9** and **S11** and the associated Appendix **S5**, with a view to ensuring consistency among these provisions, as appropriate, taking into account *considering i)*; 3 the limitations of section A3 of Annex 7 to Appendix **S30** in the context of any changes to the sharing criteria studied by ITU-R,	SC 6

Resolution **[GT PLEN-1/3] (WRC-2000)** Sharing procedures and criteria between receiving earth stations in the broadcasting-satellite service and transmitting earth stations or terrestrial stations in frequency bands allocated to the broadcasting-satellite service and the fixed-satellite service (Earth-to-space) or to terrestrial services		to undertake, as a matter of urgency, and complete in time for consideration by WRC-03, the appropriate regulatory, operational and technical studies in the bands allocated to the broadcasting-satellite service and the fixed-satellite service (Earth-to-space) or to terrestrial services, consistent with the decisions of WRC-2000 on No. **S9.19**, in order to enabling WRC-03 to review, and if appropriate revise, the regulatory and technical sharing conditions between these services, with a view to enabling equitable access to spectrum by these services in these bands and ensure their harmonious development,	SC 6
1.28 to permit the use of the band 108-117.975 MHz for the transmission of radionavigation satellite differential correction signals by ICAO standard ground-based systems;			
			SC 8
1.29 to consider the results of studies related to Resolutions **[COM5/3] (WRC-2000)** and **[COM5/23] (WRC-2000)** dealing with sharing between non-GSO and GSO systems;			
Resolution **[COM5/3]** Frequency sharing in the range 37.5-50.2 GHz between GSO FSS networks and non-GSO FSS systems		1 to undertake, as a matter of urgency, the appropriate technical, operational and regulatory studies on sharing arrangements which achieve an appropriate balance between GSO FSS networks and non-GSO FSS systems in the frequency range 37.5-50.2 GHz; 2 to report the results of these studies to WRC-03.	SC 4
Resolution **[COM5/23]** Development of procedures in case the operational or additional operational limits in Article **S22** are exceeded		taking into consideration the guidelines in Annex 1, to conduct, as a matter of urgency, and in time for consideration by WRC-03, the appropriate regulatory studies to develop procedures, not limited to modification of Article **S15**, for application in cases where the power limits referred to in *considering a)* are exceeded at an operational earth station.	SC
1.30 to consider possible changes to the procedures for the advance publication, coordination and notification of satellite networks in response to Resolution **86** (Minneapolis, 1998);			
			SC

1.31 to consider the additional allocations to the mobile-satellite service in the 1-3 GHz band, in accordance with Resolutions **[COM5/29] (WRC-2000)** and **[COM5/30] (WRC-2000)**;			
Resolution **[COM5/29]** Sharing studies for, and possible additional allocations to, the mobile-satellite service (space-to-Earth) in the 1-3 GHz range, including consideration of the band 1 518-1 525 MHz		1 to study, as a matter of urgency, sharing between the MSS and aeronautical mobile telemetry in all the Regions in the band 1 518-1 525 MHz, taking into account, *inter alia*, Recommendation ITU-R M.1459; 2 to review, as a matter of urgency, the pfd levels used as coordination thresholds for MSS (space-to-Earth) with respect to the protection of point-to-multipoint fixed-service systems in the band 1 518-1 525 MHz in Regions 1 and 3, taking into account the work already done in Recommendations ITU-R M.1141 and ITU-R M.1142 and the characteristics of fixed-service systems contained in Recommendations ITU-R F.755-2 and ITU-R F.758-1, and the sharing methodologies contained in Recommendations ITU-R F.758-1, ITU-R F.1107 and ITU-R F.1108; 3 in the event that the studies of the specific frequency bands referred to in this resolution lead to an unsatisfactory conclusion, to carry out sharing studies in order to recommend alternative MSS (space-to-Earth) frequency bands in the 1-3 GHz range, but excluding the band 1 559-1 610 MHz, for consideration at WRC-03; 4 to bring the results of these studies to the attention of WRC-03,	SC 4, 6, 7, 8, 9
Resolution **[COM5/30]** Sharing studies for, and possible additional allocations to, the mobile-satellite service (Earth-to-space) in the 1-3 GHz range, including consideration of the band 1 683-1 690 MHz		*resolves to invite ITU-R* 1 to complete, as a matter of urgency and in time for WRC-03, the technical and operational studies on the feasibility of sharing between MSS and MetSat, by determining appropriate separation distances between mobile earth stations and MetSat stations, including GVAR/S-VISSR stations, in the band 1 683-1 690 MHz, as stated in Recommendation ITU-R SA.1158-2; 2 to assess, with the participation of WMO, the current and future spectrum requirements of the MetAids service, taking into account improved characteristics, and of the MetSat service in the band 1 683-1 690 MHz, taking into account future developments; 3 in the event that the studies of the specific frequency band referred to in this resolution lead to an unsatisfactory conclusion, to carry out sharing studies in order to recommend alternative MSS (Earth-to-space) frequency bands in the 1-3 GHz range, but excluding the band 1 559-1 610 MHz, for consideration at WRC-03; 4 to bring the results of these studies to the attention of WRC-03,	SC 4, 6, 7, 8, 9

1.32 to consider technical and regulatory provisions concerning the band 37.5-43.5 GHz, in accordance with Resolutions **128 (Rev.WRC-2000)** and **[COM5/28] (WRC-2000)**;			
Resolution **128 (Rev.WRC-2000)** Protection of the radio astronomy service in the 42.5-43.5 GHz band		1 to study, as a matter of urgency and in time for WRC-03, the provisional power flux-density limits given in No. **S5.RAS**; 2 to identify technical and operational measures in the band 41.5-42.5 GHz, including possible mitigation techniques, that may be implemented to protect stations in the radio astronomy service operating in the band 42.5-43.5 GHz, including geographical separation and out-of-band emission limits to be applied to BSS and FSS space stations, as well as measures that may be implemented to reduce the susceptibility of stations in the radio astronomy service to harmful interference,	SC 4, 6, 7, 8, 9
Resolution **[COM5/28]** Power flux-density limits in the bands 37.5-42.5 GHz for the fixed-satellite service, broadcasting-satellite service and mobile-satellite service		1 taking into account the *resolves*, to conduct as a matter of urgency and in time for WRC-03, studies to determine whether the power flux-density limits included in Table **S21-4** adequately protect the fixed service in the bands 37.5-40 GHz and 42-42.5 GHz from FSS and MSS space-to-Earth transmissions; 2 taking into account the *resolves,* to conduct as a matter of urgency and in time for WRC-03, studies to determine whether the power flux-density limits included in Table **S21-4** adequately protect the fixed service in the band 40.5-42 GHz from FSS space-to-Earth transmissions, taking into account the requirements of the FSS and *recognizing c)*; 3 to study technical and operational characteristics and power flux-density values for the BSS in the range 40.5-42.5 GHz; 4 in conducting studies under *invites ITU-R* 1, 2 and 3 above, to take into account the need to ensure a proper balance in terms of the impact on both the fixed service and space services sharing the same band; 5 to conduct, as a matter of urgency and taking into account the *considering* paragraphs above, studies on mitigation techniques to improve sharing conditions between the space services referred to under *considering* above and fixed service systems, taking account of the impact on both the systems of these space services and the fixed service systems; 6 to undertake, as a matter of urgency, studies on the appropriate criteria and techniques for addressing interference from transmitters of the fixed service into earth station receivers in high-density applications in the FSS having allocations in the bands 39.5-40 GHz and 40.5-42 GHz and intended for operation in the same geographic area;	SC 4, 6, 7, 8, 9

		7 in the bands 37.5-40 GHz and 42-42.5 GHz, to study the nominal clear-sky power flux-density levels, and the percentage of time during which they may be exceeded to overcome fading conditions between the satellite and one or more geographically separated earth stations, in order to protect the fixed service while permitting operation of FSS earth stations using, for example, coordinated large antennas, taking into account the balance of constraints on both FSS systems and the fixed service; 8 to report on the results of these studies in time for WRC-03,	
1.33 to review and revise technical, operational and regulatory provisions, including provisional limits in relation to the operation of high altitude platform stations within IMT-2000 in the bands referred to in No. **S5.BBB**, in response to Resolution **[COM5/13] (WRC-2000)**;			
Resolution **[COM5/13]** Use of high altitude platform stations providing IMT-2000 in the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz in Regions 1 and 3 and 1 885-1 980 MHz and 2 110-2 160 MHz in Region 2		to complete, as a matter of urgency, additional regulatory, operational and technical studies on sharing criteria for HAPS with other systems in the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz in Regions 1 and 3 and 1 885-1 980 MHz and 2 110-2 160 in Region 2, and in adjacent bands to allow revision of the values in *resolves* 1 and to develop appropriate regulatory and technical provisions to allow the coordination mentioned in *resolves* 4 and to report on the results of these studies in time for consideration by WRC-03.	SG 8, SC
1.34 to review the results of studies in response to Resolution **[COM4/6] (WRC-2000)** concerning threshold values for non-GSO BSS (sound) in the band 2 630-2 655 MHz, and to take actions as required;			
Resolution **[COM4/6] (WRC-2000)** Use of the band 2 630-2 655 MHz in certain Region 3 countries by non-GSO satellite systems in the broadcasting-satellite service (sound)	**495(R.12)**	1 to conduct, in time for WRC-03, the necessary studies to develop calculation methodologies and sharing criteria to be used by administrations in applying the provisions of Nos. **S5.[XXX1]**, **S5.[XXX2**] and **S5.[XXX3]**; 2 to conduct, in time for WRC-03, the necessary technical and regulatory studies relating to frequency sharing between systems in the broadcasting-satellite service (sound) and terrestrial services in the band 2 535-2 655 MHz with a view avoiding placing undue constraints on either service,	SC 4, 6, 8, 9
1.35 to consider the report of the Director of the Radiocommunication Bureau on the results of the analysis in accordance with Resolution **53 (Rev.WRC-2000)** and take appropriate action;			
Resolution **53 (Rev.WRC-2000)** Updating of the "Remarks" columns in the tables of Article 9A of Appendix **S30A** and Article 11 of Appendix **S30** to the Radio Regulations		No action	

2 to examine the revised ITU-R Recommendations incorporated by reference in the Radio Regulations communicated by the Radiocommunication Assembly, in accordance with Resolution **28 (Rev.WRC-2000)**, and to decide whether or not to update the corresponding references in the Radio Regulations, in accordance with principles contained in the Annex to Resolution **27 (Rev.WRC-2000)**;			
Resolution **28 (Rev.WRC-2000)** Revision of references to the text of ITU-R Recommendations incorporated by reference in the Radio Regulations		*instructs the Director of the Radiocommunication Bureau* to provide CPM immediately preceding each WRC with a list, for inclusion in the CPM Report, of those ITU-R Recommendations containing texts incorporated by reference that have been revised or approved since the previous WRC, or that may be revised in time for the following WRC,	
Resolution **27 (Rev.WRC-2000)** Use of incorporation by reference in the Radio Regulations		*instructs the Director of the Radiocommunication Bureau* to bring this resolution to the attention of the Radiocommunication Assembly and the ITU study groups,	
4 in accordance with Resolution **95 (Rev.WRC-2000)**, to review the resolutions and recommendations of previous conferences with a view to their possible revision, replacement or abrogation;			
Resolution **95 (Rev.WRC-2000)** General review of the resolutions and recommendations of world administrative radio conferences and world radiocommunication conferences		*instructs the Director of the Radiocommunication Bureau* 1 to conduct a general review of the resolutions and recommendations of previous conferences and, after consultation with the Radiocommunication Advisory Group and the chairpersons and vice-chairpersons of the radiocommunication study groups, submit a report to the second session of the Conference Preparatory Meeting in respect of *resolves* 1 and *resolves* 2; 2 if practicable, to include in the above report an indication of the agenda item, if appropriate, and possible responsible committees within the conference for each text, based on the available information as to the possible structure of the conference, *invites the Conference Preparatory Meeting* to include, in its report, the results of a general review of the resolutions and recommendations of previous conferences.	
8 to recommend to the Council that additional budgetary and conference resources be provided so that the following items can be included in this agenda for WRC-03:			
8.1 to examine the adequacy of the frequency allocations for HF broadcasting from about 4 MHz to 10 MHz, taking into account the seasonal planning procedures adopted by WRC-97;			
			SGs 6, 9

8.2 to consider the regulatory and technical provisions for satellite networks using highly elliptical orbits;			
			SGs 4, 7, 8
8.3 to consider provision of up to 6 MHz of frequency spectrum to the Earth exploration-satellite service (active) in the frequency band 420-470 MHz, in accordance with Resolution **727 (Rev.WRC-2000)**;			
Resolution **727 (Rev.WRC-2000)** Use of the frequency band 420-470 MHz by the earth exploration-satellite (active) service		1 to invite ITU-R to study, as a matter of urgency, emission criteria, specific sharing criteria and operational characteristics for active spaceborne sensors in the frequency band 420-470 MHz, and develop a relevant Recommendation; 2 to invite ITU-R to develop an ITU-R Report by the date of a future Conference Preparatory Meeting on the specific emission and operational characteristics used by the Earth exploration-satellite (active) service in order to minimize the potential interference to existing services, and in order to support the selection of a frequency band having the optimal sharing scenarios; 3 that, on the basis of proposals from administrations, and taking into account the results of the ITU-R studies, the ITU-R Report mentioned in *resolves* 2, and a future CPM Report, a future competent world radiocommunication conference should consider provision of up to 6 MHz of frequency spectrum to the Earth exploration-satellite (active) service in the frequency band 420-470 MHz.	SC 7, 8, 9
8.4 to examine the spectrum requirements in the fixed-satellite service bands below 17 GHz for telemetry, tracking and telecommand of fixed-satellite service networks operating with service links in the frequency bands above 17 GHz,			
			SG 4