تصدر عن وزارة شئون الإعلام مملكة البحرين **المراسلات** 

> المشرف العام الجريدة الرسمية وزارة شئون الإعلام فاكس: 17681493-00973

> > ص. ب 26005

المنامة-مملكة البحرين

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إعلان من غرفة البحرين لتسوية المنازعات
استدراك ١٦٨



أمر ملكي رقم (٣٠) لسنة ٢٠٢٠ بتعديل تسمية جهاز الأمن الوطني

نحن حمد بن عيسى آل خليفة ملك مملكة البحرين. بعد الاطلاع على الدستور، وعلى المرسوم رقم (١٤) لسنة ٢٠٠٢ بإنشاء جهاز الأمن الوطني، وتعديلاته، وعلى الأمر الملكي رقم (٥١) لسنة ٢٠١٧ بإعادة تنظيم جهاز الأمن الوطني وتعيين رئيس للجهاز،

### المادة الثانية يُعمل بهذا الأمر من تاريخ صدوره، ويُنشَر في الجريدة الرسمية.

ملك مملكة البحرين حمد بن عيسى آل خليفة

> صدر في قصر الرفاع: بتاريخ: ٢٥ ذي القعدة ١٤٤١هـ الموافق: ١٦ يـوليـو ٢٠٢٠م

العدد: 3481 – الخميس 23 يوليو 2020

نحن حمد بن عيسى آل خليفة ملك مملكة البحرين. بعد الاطلاع على الدستور، وعلى المرسوم بقانون رقم (١٩) لسنة ١٩٧٦ في شأن الأوسمة، وتعديلاته،

المادة الثانية يُعمل بهذا الأمر من تاريخ صدوره، ويُنشَر في الجريدة الرسمية.

ملك مملكة البحرين حمد بن عيسى آل خليفة

> صدر في قصر الرفاع: بتاريخ: ٢٨ ذي القعدة ١٤٤١هـ الموافق: ١٩ يـوليـو ٢٠٢٠م



مرسوم رقم (٤٥) لسنة ٢٠٢٠ بتشكيل مجلس أمناء أكاديمية محمد بن مبارك آل خليفة للدراسات الدبلوماسية

نحن حمد بن عيسى آل خليفة ملك مملكة البحرين. بعد الاطلاع على الدستور، وعلى المرسوم رقم (٦٨) لسنة ٢٠١٦ بإعادة تنظيم وزارة الخارجية، وعلى المرسوم رقم (٥٤) لسنة ٢٠١٩ بإنشاء أكاديمية محمد بن مبارك آل خليفة للدراسات الدبلوماسية، المعدَّل بالمرسوم رقم (٢٨) لسنة ٢٠٢٠، وبناءً على عرّض وزير الخارجية، وبعد موافقة مجلس الوزراء،

رسمنا بالآتي:

#### المادة الأولى

يُشكَّل مجلس أمناء أكاديمية محمد بن مبارك آل خليفة للدراسات الدبلوماسية برئاسة وزير الخارجية، وعضوية كلِّ من: ١- الشيخ الدكتور عبدالله بن أحمد آل خليفة. ٢- الشيخة الدكتورة رَنا بنت عيسى آل خليفة. ٣- الدكتور ناصر محمد البلوشي. ٤- الدكتور إبراهيم يوسف العبدالله. ٥- الدكتور محمد غسان شيخو. ٦- الشيخة الدكتورة منيرة بنت خليفة آل خليفة. وتكون مدة العضوية في المجلس أربع سنوات قابلة للتجديد.

المادة الثانية

على وزير الخارجية تنفيذ أحكام هذا المرسوم، ويُعمل به من تاريخ صدوره، ويُنشَر في الجريدة الرسمية.

ملك مملكة البحرين حمد بن عيسى آل خليفة

> النائب الأول لرئيس مجلس الوزراء سلمان بن حمد آل خليفة

> > صدر في قصر الرفاع: بتاريــــخ: ٢٤ ذي القعدة ١٤٤١هـ الموافق: ١٥ يــوليــــو ٢٠٢٠ م

وزارة العدل والشئون الإسلامية والأوقاف

قرار رقم (٧٧) لسنة ٢٠٢٠ بشأن تخويل بعض موظفي وزارة الأشغال وشئون البلديات والتخطيط العمراني صفة مأموري الضَّبْط القضائي

وزير العدل والشئون الإسلامية والأوقاف:

بعد الاطلاع على قانون الإجراءات الجنائية، الصادر بالمرسوم بقانون رقم (٤٦) لسنة ٢٠٠٢ وتعديلاته، وعلى الأخص المادة (٤٥) منه،

وعلى القانون رقم (٣٣) لسنة ٢٠٠٦ بشأن الصَّرف الصحي وصرف الميام السطحية، وعلى الأخص المادة (١٥/ج) منه،

وعلى اللائحة التنفيذية للقانون رقم (٣٣) لسنة ٢٠٠٦ بشأن الصرف الصحي وصرف المياه السطحية الصادرة بالقرار رقم (١٠) لسنة ٢٠٠٩،

وبناءً على الاتفاق مع وزير الأشغال وشئون البلديات والتخطيط العمراني،

قرر الآتي:

#### المادة الأولى

يُحوَّل موظفووزارة الأشغال وشئون البلديات والتخطيط العمراني التالية أسماؤهم، صفة مأموري الضَّبَط القضائي، وذلك بالنسبة للجرائم التي تقع في دوائر اختصاصهم بالمخالفة لأحكام القانون رقم (٣٣) لسنة ٢٠٠٦ بشأن الصرَّرف الصحي وصرف الميام السطحية، ولائحته التنفيذية والقرارات الصادرة تنفيذاً لهما، وهم:

١- حسين رياض عبدالله الذهبة.
٢- أحمد حبيب عبدالكريم آل زكريا.
٣- إبراهيم حميد أحمد.
٤- سارة أحمد يوسف ماجد.
٥- عبدالله علي أحمد.
٢- عبدالله عد الربس.

العدد: 3481 – الخميس 23 يوليو 2020

#### المادة الثانية

تُلغى صفة الضَّبَطية القضائية المخوَّل بها كل من، الموظفة/ صدِّيقة علي عبدالأمير الجزيري، والموظف/ محمد جابر سالم، الممنوحة لهما بموجب القرار رَقم (٥٥) لسنة ٢٠١٨ بشأن تخويل بعض موظفي وزارة الأشغال وشئون البلديات والتخطيط العمراني صفة مأموري الضَّبَط القضائي.

## المادة الثالثة يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَرِه.

وزير العدل والشئون الإسلامية والأوقاف خالد بن علي بن عبدالله آل خليفة

> صدر بتاريخ: ٢٤ ذي القعدة ١٤٤١هـ الموافق: ١٥ يوليو ٢٠٢٠م

وزارة شئون الشباب والرياضة

وزير شئون الشباب والرياضة:

بعد الاطلاع على قانون الجمعيات والأندية الاجتماعية والثقافية والهيئات الخاصة العاملة في ميدان الشباب والرياضة والمؤسسات الخاصة، الصادر بالمرسوم بقانون رقم (٢١) لسنة ١٩٨٩، وتعديلاته،

وعلى اللائحة النموذجية للنظام الأساسي للأندية الخاضعة لإشراف وزارة شئون الشباب والرياضة، الصادرة بالقرار رقم (١) لسنة ١٩٩٠، وتعديلاتها،

وعلى القرار رقم (٥) لسنة ١٩٩٠ بشأن نشر أرقام قيّد وملخّصات الأنظمة الأساسية لبعض الأندية التي أُعيد تسجيلها بالمؤسسة العامة للشباب والرياضة،

وعلى القرار رقم (٥٤) لسنة ٢٠١٦ بشأن تنظيم سجلات قيّد الأندية الرياضية والمراكز الشبابية الخاضعة لإشراف وزارة شئون الشباب والرياضة،

وعلى النظام الأساسي لنادي البحرين للجولف، وعلى الطلب المقدَّم من نادي البحرين للجولف برغبة جمعيته العمومية بتعديل بعض الأحكام المبيَّنة بالنظام الأساسى للنادى المؤرخ في ٥ يوليو ٢٠٢٠،

وبناءً على عرّض القائم بأعمال الوكيل المساعد للرقابة والتراخيص،

#### قرر الآتي: دارت بدؤ

**المادة الأولى** يُقيَّد في سجل قيِّد الأندية الرياضية الخاضعة لإشراف وزارة شئون الشباب والرياضة تعديل نص المادتين رقمي (٢٧)، (٣٣) من النظام الأساسي لنادي البحرين للجولف، ليكون نصَّاهما الآتي:

"مادة (۲۷):

يدير شئون النادي مجلس إدارة مكوَّن من رئيس وعدد أحد عشر عضواً تنتخبهم الجمعية العمومية للنادي من بين أعضائها العاملين بالانتخاب السري المباشر.

والمناصب الإدارية بالنادي هي كالتالى:

- ١ رئيس النادي.
- ٢- النائب الأول لرئيس النادي.

٣- النائب الثاني لرئيس النادي.

ينتخب مجلس الإدارة من بين أعضائه بمجرد تكوينه نائباً للرئيس وأميناً للسر وأميناً للصندوق.

ويجوز لمجلس الإدارة أن يعيِّن مديراً متفرغاً بأجر ممن تتوافر لديهم الشروط التي تحدِّدها وزارة شئون الشباب والرياضة. ويجوز دعوة المدير لحضور اجتماعات مجلس الإدارة دون أن يكون له حق التصويت فيها.

ولا يجوز للمدير أن يباشر أيَّ عمل آخر بمقابل أو بدون مقابل إلا بتصريح من مجلس الإدارة وموافقة الوزارة. وفي حالة غياب المدير ينتدب مجلس الإدارة من بين أعضائه من يتولى أعماله أثناء فترة غيابه شريطة ألا يتقاضى هذا العضو أية أجور أو مكافآتٍ مقابل ذلك.

ويجوز للجمعية العمومية للنادي بعد موافقة الوزارة فتح باب التَّرَشَّح والانتخاب على مناصب محدَّدة بمجلس الإدارة، كما يجوز للمجلس بعد موافقة الوزارة أن يشترط توافر خبرات أو مؤهلات معيَّنة في المترشِّح لشغَّل منصب أو أكثر في عضويته وذلك بحسب الحاجة."

> المادة الثانية يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَرِه.

وزير شئون الشباب والرياضة أيمن بن توفيق المؤيد

> صدر بتاريخ: ١٧ ذي القعدة ١٤٤١هـ الموافق: ٨ يوليـــو ٢٠٢٠م،

مصرف البحرين المركزي

محافظ مصرف البحرين المركزى:

بعد الاطلاع على قانون مصرف البحرين المركزي والمؤسسات المالية الصادر بالقانون رقم (٦٤) لسنة ٢٠٠٦، وتعديلاته، وعلى الأخص المادة (١٧٧) منه،

وعلى اللائحة في شأن نظام حماية الودائع وحسابات الاستثمار المطلقة الصادرة بالقرار رقم (٣٤) لسنة ٢٠١٠،

وعلى القرار رقم (١٧) لسنة ٢٠١١ بشأن تشكيل مجلس حماية الودائع وحسابات الاستثمار المطلقة،

وعلى القرار رقم (٤٢) لسنة ٢٠١٧ بشأن إعادة تشكيل مجلس حماية الودائع وحسابات الاستثمار المطلقة،

#### قرر الآتي:

#### المادة الاولى

يُعاد تشكيل مجلس حماية الودائع وحسابات الاستثمار المطلقة من السادة التالية أسماؤهم:

,		e	
رئيساً	ممثلاً عن مصرف البحرين المركزي	الشيخ سلمان بن عيسى آل خليفة	١
نائباً للرئيس	ممثلاً عن مصرف البحرين المركزي	حصة عبدالله السادة	۲
عضوأ	ممثلاً عن وزارة المالية والاقتصاد الوطني	مبارك نبيل مطر	٣
عضوأ	ممثلا عن وزارة الصناعة والتجارة والسياحة	حسن عبدالله الغنَّامي	٤
عضواً	ممثلا عن بنوك التجزئة الإسلامية	عبدالحكيم خليل المطوع	٥
عضواً	ممثلاً عن بنوك التجزئة التقليدية	محمد عبدالله عيسى	٦
عضواً	ممثلاً عن بنوك التجزئة التقليدية	هشــام سعيد الكــردي	٧
عضواً	ممثلاً عن بنوك التجزئة التقليدية	شكوفة عوض أصغر	٨
عضواً	مستقلاً	نجلاء محمد الشيراوي	٩

عضواً	مستقلأ	صالح حسين صالح	١٠
عضواً	مستقلأ	أحمـد فؤاد المهـري	) )

وتكون مدة عضويتهم في المجلس ثلاث سنوات قابلة للتجديد.

## المادة الثانية يُعيَّن أمين سر للمجلس كُلُّ من: ١- شيخة محمد سالم (مسئول أول للعمليات النقدية في إدارة الخِدُمات المصرفية بمصرف البحرين المركزي). ٢- نائلة عدنان بومطيع (مساعد مسئول المدفوعات والتسويات في إدارة الخِدُمات المصرفية بمصرف البحرين المركزي).

#### المادة الثالثة

على الإدارات المعنية تنفيذ هذا القرار، ويُعمل به اعتباراً من تاريخ ١٨ يوليو ٢٠٢٠، ويُنشَر في الجريدة الرسمية.

محافظ مصرف البحرين المركزي رشيد محمد المعراج

> صدر بتاريخ: ٢٥ ذي القعدة ١٤٤١هـ الموافق: ١٦ يوليو ٢٠٢٠م

وزارة الأشغال وشئون البلديات والتخطيط العمراني

قرار رقم (١٤٨) لسنة ٢٠٢٠ بشأن تغيير تصنيف عقار في منطقة الجفير – مجمع ٣٤١

وزير الأشغال وشئون البلديات والتخطيط العمراني:

بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة وتنظيم المباني والتخطيط العمراني وتقسيم الأراضي المعدَّة للتعمير والتطوير وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦، وبعد العرِّض على مجلس أمانة العاصمة،

وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني،

وبناءً على عرّض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

قرر الآتي:

#### مادة (۱)

يغيَّر تصنيف العقار رقم ٥٣٠٤٣٣٣٨ الكائن بمنطقة الجفير مجمع ٣٤١ من تصنيف

مناطق السكن الخاص ب (RB) إلى تصنيف مناطق الخدّمات والمرافق العامة (PS)، وفَقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليه الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

مادة (۲)

يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ٢ ذي القعدة ١٤٤١هـ الموافق: ٢٣ يونيو ٢٠٢٠م



وزارة الأشغال وشئون البلديات والتخطيط العمراني

قرار رقم (١٤٩) لسنة ٢٠٢٠ بشأن تعديل حدود تصنيف عقار في منطقة البديع – مجمع ٥٥٥

وزير الأشغال وشئون البلديات والتخطيط العمراني:

بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة وتنظيم المباني والتخطيط العمراني وتقسيم الأراضي المعدَّة للتعمير والتطوير وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦،

وبعد العرِّض على المجلس البلدي لبلدية المنطقة الشمالية، وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني،

وبناءً على عرّض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

قرر الآتي:

#### مادة (١)

تعدَّل حدود تصنيف العقار رقم ٥٠٠٤٤٥٠٩ الكائن بمنطقة البديع مجمع ٥٥٥ ضمن

تصنيف مناطق الخدّمات والمرافق العامة (PS)، وفُقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليه الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

> مادة (٢) يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ٢ ذي القعدة ١٤٤١هـ الموافق: ٢٣ يونيو ٢٠٢٠م



وزارة الأشغال وشئون البلديات والتخطيط العمراني

وزير الأشغال وشئون البلديات والتخطيط العمراني:

بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة وتنظيم المباني والتخطيط العمراني وتقسيم الأراضي المعدَّة للتعمير والتطوير وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦، وبعد العرَض على مجلس أمانة العاصمة،

و. وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني،

وبناءً على عرّض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

قرر الآتي: مادة (١)

يغيَّر تصنيف العقار رقم ٠٤٠٢٢٠٧ الكائن بمنطقة الديه مجمع ٤١٤ من تصنيف مناطق

السكن المتصل ب (RHB) إلى تصنيف مناطق الخدّمات والمرافق العامة (PS)، وفَقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليه الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

**مادة (٢)** يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ٢ ذي القعدة ١٤٤١هـ الموافق: ٢٣ يونيو ٢٠٢٠م





وزارة الأشغال وشئون البلديات والتخطيط العمراني

قرار رقم (١٥٢) لسنة ٢٠٢٠ بشأن تعديل حدود تصنيف عقار في منطقة المالكية – مجمع ١٠٣٣

وزير الأشغال وشئون البلديات والتخطيط العمراني: بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧

بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١١) تسنيه ١٠٠٠ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة وتنظيم المباني والتخطيط العمراني وتقسيم الأراضي المعدَّة للتعمير والتطوير وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦،

وبعد العرِّض على المجلس البلدي لبلدية المنطقة الشمالية، وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني،

وبناءً على عرّض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

قرر الآتي:

#### مادة (١)

تعدَّل حدود تصنيف العقار رقم ١٠٠٣١٩٦٠ الكائن بمنطقة المالكية مجمع ١٠٣٣ ضمن

تصنيف مناطق الخدّمات والمرافق العامة (PS)، وفُقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليه الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

> مادة (٢) يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ٢ ذي القعدة ١٤٤١هـ الموافق: ٢٣ يونيو ٢٠٢٠م



وزارة الأشغال وشئون البلديات والتخطيط العمراني

قرار رقم (١٥٣) لسنة ٢٠٢٠ بشأن تعديل حدود تصنيف عقار في منطقة البوري – مجمع ٧٥٤

وزير الأشغال وشئون البلديات والتخطيط العمراني:

بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة وتنظيم المباني والتخطيط العمراني وتقسيم الأراضي المعدَّة للتعمير والتطوير وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦،

وبعد العرِّض على المجلس البلدي لبلدية المنطقة الشمالية، وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني،

وبناءً على عرّض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

قرر الآتي: مادة (١)

تعدَّل حدود تصنيف العقار رقم ٧٠٢٦٢٢١ الكائن بمنطقة بوري مجمع ٧٥٤ ضمن

تصنيف مناطق الخدّمات والمرافق العامة (PS)، وفُقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليه الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

> **مادة (٢)** يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ٢ ذي القعدة ١٤٤١هـ الموافق: ٢٣ يونيو ٢٠٢٠م



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وزارة الأشغال وشئون البلديات والتخطيط العمراني

قرار رقم (١٦٠) لسنة ٢٠٢٠ بشأن تغيير تصنيف عدد من العقارات في منطقة النويدرات – مجمع ٦٤٦

وزير الأشغال وشئون البلديات والتخطيط العمراني: بعد الاطلاع على قانون تنظيم المباني، الصادر بالمرسوم بقانون رقم (١٣) لسنة ١٩٧٧ وتعديلاته، وعلى الأخص المادة (٢٠) منه،

وعلى المرسوم بقانون رقم (٢) لسنة ١٩٩٤ بشأن التخطيط العمراني، ولائحته التنفيذية الصادرة بالقرار رقم (١) لسنة ١٩٩٤،

وعلى المرسوم بقانون رقم (٣) لسنة ١٩٩٤ بشأن تقسيم الأراضي المعدَّة للتعمير والتطوير، ولائحته التنفيذية الصادرة بالقرار رقم (٥٦) لسنة ٢٠٠٩، وتعديلاتها،

وعلى قانون البلديات، الصادر بالمرسوم بقانون رقم (٣٥) لسنة ٢٠٠١ وتعديلاته، ولائحته التنفيذية الصادرة بالقرار رقم (١٦) لسنة ٢٠٠٢، وتعديلاتها،

وعلى القانون رقم (٦) لسنة ٢٠٠٥ بتعديل بعض أحكام المراسيم بقوانين بشأن استملاك الأراضي للمنفعة العامة، وتنظيم المباني، والتخطيط العمراني، وتقسيم الأراضي المعدَّة للتعمير والتطوير، وإشغال الطُّرُق العامة،

وعلى القانون رقم (٣٩) لسنة ٢٠٠٩ بشأن استملاك العقارات للمنفعة العامة،

وعلى المرسوم رقم (٥٠) لسنة ٢٠١٩ بإعادة تنظيم شئون الأشغال وشئون البلديات بوزارة الأشغال وشئون البلديات والتخطيط العمراني،

وعلى الاشتراطات التنظيمية للتعمير بمختلف المناطق في المملكة، الصادرة بالقرار رقم (٢٨) لسنة ٢٠٠٩، المعدَّل بالقرار رقم (٥٥) لسنة ٢٠١٦،

وبعد العرِّض على المجلس البلدي لبلدية المنطقة الجنوبية، وبناءً على الدراسات الاجتماعية والعمرانية والتخطيطية للمنطقة، وعلى موافقة اللجنة العليا للتخطيط العمراني، وبناءً على عرِض الرئيس التنفيذي لهيئة التخطيط والتطوير العمراني،

~

قرر الآتي:

#### مادة (١)

يغيَّر تصنيف العقارات الكائنة بمنطقة النويدرات مجمع ٦٤٦ من تصنيف مناطق العمارات

ذات الثلاثة طوابق (B3) وتصنيف مناطق العمارات ذات الأربعة طوابق بواجهة تجارية (\*B4) وتصنيف مناطق المشاريع ذات الطبيعة الخاصة (SP) وتصنيف المناطق غير المخطَّطة (UP) إلى تصنيف مناطق الخدَمات والمرافق العامة (PS) وتصنيف مناطق المشاريع ذات الطبيعة الخاصة (SP) وفَقاً لما هو وارد في الخارطة المرافقة لهذا القرار، وتطبَّق عليها الاشتراطات التنظيمية للتعمير الواردة في قرار رئيس مجلس الوزراء رقم (٢٨) لسنة ٢٠٠٩.

مادة (٢)

يُلغى كل نص يتعارض مع هذا القرار.

مادة (٣) يُنشَر هذا القرار في الجريدة الرسمية، ويُعمل به من اليوم التالي لتاريخ نشَّره.

وزير الأشغال وشئون البلديات والتخطيط العمراني عصام بن عبدالله خلف

> صدر بتاريخ: ١٧ ذي القعدة ١٤٤١هـ الموافق: ٨ يوليـــو ٢٠٢٠م



هيئة المعلومات والحكومة الإلكترونية

الرئيس التنفيذي لهيئة المعلومات والحكومة الإلكترونية: بعد الاطلاع على قانون الاتصالات، الصادر بالمرسوم بقانون رقم (٤٨) لسنة ٢٠٠٢، وعلى الأخص المادة الأولى من الباب الأول، وعلى المرسوم بقانون رقم (٣٨) لسنة ٢٠١٧ بتعديل بعض أحكام قانون الاتصالات، الصادر بالمرسوم بقانون رقم (٣٨) لسنة ٢٠١٧، بتعديل بعض أحكام قانون الاتصالات، وعلى المرسوم بقانون رقم (٤٨) لسنة ٢٠١٧، وعلى المرسوم رقم (٦٩) لسنة ٢٠١٥ بإنشاء هيئة المعلومات والحكومة الإلكترونية، وعلى المرار رقم (٥٥) لسنة ٢٠١٥ بإنشاء لجنة استراتيجية وتنسيق الطَّيْف التَّرَدُّدي، والقرار رقم (٢٥) لسنة ٢٠١٥ بإنشاء لجنة استراتيجية وتنسيق الطَّيْف التَّرَدُّدي، والقرار رقم (٢٥) لسنة ٢٠١٥ بينعن أحكام القرار رقم (٥٥) لسنة ٢٠١٥، وبعد أخَذ رأي لجنة استراتيجية وتنسيق الطَّيْف التَّرَدُّدي، وموافقتها على اعتماد مسوَّدة الخطة الوطنية للتَّرَدُّدات في اجتماعها الثاني بتاريخ ١١ يونيو ٢٠٢٠،

> قرر الآتي: المادة الأولى تُعتمَد الخطة الوطنية للتَّرَدُّدات المرافقة لهذا القرار.

> > المادة الثانية

يُنشَر هذا القرار والخطة المرافقة له في الجريدة الرسمية، وعلى مدير إدارة التراخيص اللاسلكية والتَّرُدُّدات والرقابة مراقبة تنفيذها، ويعمل بهما من اليوم التالي للنَّشَر.

الرئيس التنفيذي لهيئة المعلومات والحكومة الإلكترونية رئيس لجنة استراتيجية وتنسيق الطَّيف التَّرَدُّدي محمد علي القـائـد

> صدر بتاريخ: ٢٤ ذي القعدة ١٤٤١هـ الموافق: ١٥ يوليو ٢٠٢٠م



العدد: 3481 – الخميس 23 يوليو 2020



# مملكة البحرين الخطة الوطنية للترددات

## **National Frequency Plan (NFP)**

Version 1.1 / 2020

Information & eGovernment Authority (iGA)



المحتوى

i	المقدمة
Error! Bookmark not defined	تفاصيل الخطة الوطنية للترددات
iii	هيكلة جدول الخطة الوطنية للترددات
iv	الحواشي الوطنية
iv	التعاريف الرنيسية للاتحاد الدولي للإتصالات
Error! Bookmark not defined	جدول الخطة الوطنية للترددات
ج الراديو للاتحاد الدولي للاتصالات	الملحق رقم ١ الحواشي ذات الصلة من لوائ

#### ۱ ـ المقدمة

يعتبر طيف الترددات الراديوية موردا وطنيا محدودا ولذلك فمن الأهمية بمكان أن يستعمل مورد الطيف بطريقة نتسم بالكفاءة والفعالية. وتعد الخطة الوطنية للترددات أداة رئيسية في إدارة موارد الطيف توفر معلومات عن خدمات الاتصالات الراديوية المسموح بها في كل نطاق ترددي في مملكة البحرين.

وبالإضافة إلى احترام الاتفاقات الدولية، ينبغي أن تعكس الخطة الوطنية للترددات السياسة الوطنية بشأن استخدام الطيف الراديوي (دعما للأهداف الأوسع نطاقا لقطاع الاتصالات والأمن والبث الإذاعي، فضلا عن المستخدمين الحكوميين) ووفقا لقرار مجلس الوزراء الموقر رقم ٥٠ لعام ٢٠١٥ بشأن إنشاء وتشكيل لجنة استراتيجية وتنسيق الطيف الترددي (اللجنة) وتعديل بعض أحكامه بالقرار رقم (٢٥) لسنة ٢٠١٩، وافقت اللجنة المذكورة على الخطة الوطنية للترددات الواردة في هذا القرار.

ويعتمد المدى الذي تتحقق به الفوائد الكاملة للطيف الراديوي على الاستخدام الفعلي له ومدى إدارته بكفاءة. وقد تم إعداد وإدارة هذه الخطة من قبل إدارة التراخيص اللاسلكية والترددات والرقابة وفقا لتعريف "الخطة الوطنية للترددات" الوارد في المادة (١) والمادة (٤٢) "الإشراف على ترددات الاتصالات" في المرسوم بقانون رقم ٤٨ لسنة ٢٠٠٢ مع مراعاة للسياسة الوطنية لتخطيط الطيف الراديوي وتخصيصه واحتياجات وخطط جميع أعضاء اللجنة.

وتشمل الأهداف الرئيسية لاستخدام الطيف الراديوي ما يلي:-

- الوفاء بمتطلبات الالتزامات والاتفاقيات الدولية.
  - دعم النمو الاقتصادي وخلق فرص العمل.
- تلبية متطلبات مختلف القطاعات من الطيف الراديوي بما فيها الجهات المسؤولة عن الدفاع والأمن الوطني.
  - تلبية متطلبات الطيران المدنى والقطاعات البحرية.
- دعم إدخال تكنولوجيات أكثر كفاءة من حيث استخدام الطيف الراديوي، بما في ذلك إدخال شبكات الإذاعة الرقمية.
  - توفير البنى التحتية التنافسية للاتصالات من خلال اجراءات عادلة ومحايدة.
  - إدخال أجيال حديثة من التكنولوجيات للاتصالات المتنقلة العامة والخاصة.
  - تلبية متطلبات الطيف الراديوي لخدمات الملاحة المقدمة دوليا، مثل أنظمة تحديد المواقع.
    - تسهيل نشر شبكات الاتصالات ذات النطاق العريض.
- توفير الترددات المنسقة إقليميا وعالميا لنظام حماية الجمهور والإغاثة في حالات الكوارث، من أجل مساعدة فرق الإنقاذ
  - والطوارئ المحلية والدولية التواصل مع بعضبها البعض.
  - تحفيز الابتكار التكنولوجي والقدرة التنافسية بطريقة محايدة.
    - إدخال تقنيات جديدة لإدارة الطيف الراديوي.

• توفير الطيف الراديوي للمناطق التي لا تتوفر فيها بنية تحتية سلكية والمناطق النائية مع التركيز بشكل خاص على توفير الطيف الراديوي لخدمات الاتصالات لأغراض التعليم (بما في ذلك الفن والثقافة) وغيرها من المصالح العامة (بما في ذلك الصحة والطوارئ).

وينبغي أن تنعكس الأهداف المذكورة أعلاه على توزيعات النطاقات الترددية الواردة في الخطة الوطنية للترددات.

#### ٢ - تفاصيل الخطة الوطنية للترددات

تستند الخطة الوطنية للترددات على متطلبات الطيف الحالية والمتوقعة في المملكة في المستقبل. وفي حالة وجود خطط أو ضوابط اضافية، يرد ذكر ذلك في عمود المعلومات الإضافية (additional information). ومن المتوقع أن تنفذ الخطة الوطنية للترددات بشكل عملي جزئيا أو كليا، في أقرب وقت.

وتعتبر هذه الوثيقة بمثابة مرجع للمستوردين والمصنعين ومستخدمي معدات الاتصالات الراديوية وكذلك للدول والمنظمات الدولية ذات العلاقة.

وتتغير توزيعات الترددات في لوائح الراديو بعد انتهاء كل مؤتمر عالمي للاتصالات الراديوية حيث يعاد تحديد توزيع الترددات الجديدة لصالح خدمات معينة ذات مطالب أكثر تناميا، وتلغي الخدمات القديمة. وستحدث أيضا تغييرات على استخدام الطيف على الصعيد الدولي أو نتيجة للقرارات الوطنية المتخذة لتلبية احتياجات وطنية محددة. ومن هذا المنطلق، فإن إدارة التراخيص اللاسلكية والترددات والرقابة سوف تقوم بمراجعة وتحديث الخطة الوطنية للترددات بصورة دورية بالتنسيق والتعاون مع لجنة استراتيجية وتنسيق الطيف الترددي قبل وبعد المؤتمر العالمي للاتصالات الراديوية للاتحاد الدولي للاتصالات أو بعد أي مبادرة لتو استخدامات الترددي قبل وبعد المؤتمر العالمي للاتصالات الراديوية للاتحاد الدولي للاتصالات أو بعد أي مبادرة لتوحيد استخدامات الترددات بين دول مجلس التعاون الخليجي أو الفريق العربي الدائم للطيف الترددي (ASMG) .

وقد تشمل التطورات الوطنية التي قد تؤدي إلى تحيين الخطة الوطنية للترددات، على سبيل المثال:-

- قرارات اعتماد تكنولوجيات جديدة من قبل لجنة استراتيجية وتنسيق الطيف الترددي.
  - طلبات تحديث التكنولوجيا من قبل المستخدمين الحاليين.
    - تغيير المتطلبات لمختلف التطبيقات الراديوية.
  - المتطلبات الناشئة عن اللجان الاستشارية الوطنية القائمة على الخدمة.

كما أن أنشطة منظمات الأمم المتحدة المتخصصة الأخرى لها صلة كذلك، وبالأخص منظمة الطيران المدني الدولي والمنظمة البحرية الدولية. وبما أن الترددات الراديوية لا تقف عند الحدود الجغرافية، فمن الضروري أيضا مراعاة استخدام الطيف في الدول المجاورة.
العدد: 3481 – الخميس 23 يوليو 2020

## ٣- هيكلة جدول الخطة الوطنية للترددات

يتكون جدول الخطة الوطنية للترددات من أربعة أعمدة:

## العمود الأول: <u>RR Region 1 allocations</u>

يبين هذا العمود نوع خدمة الاتصالات الراديوية التي خصص لها نطاق التردد المعني في الإقليم ١ وفقا للمادة ٥ من لوائح الراديو للاتحاد الدولي للاتصالات (RR-2016). الإقليم ١ هو المنطقة الجغرافية التي تقع فيها مملكة البحرين. ويتضمن هذا العمود:

• النطاق الترددي.

التخصيصات بناء على المادة ٥ من لوائح الراديو التي تتوافق مع الإقليم ١ وهي ذات طابع عام.

حواشى المادة ٥ من لوائح الراديو ذات الصلة بالإقليم ١.

انظر أيضا الملحق رقم ١ للاطلاع على تفاصيل الحواشي الواردة في المادة ٥ من لوائح الراديو المذكورة في العمود ١.

#### العمود الثاني: <u>The National Frequency Allocations</u>

لكل نطاق ترددي:

• توزيع الترددات على خدمات الاتصالات الراديوية في المملكة استنادا إلى العمود الأول والحواشي. • الحواشي الوطنية في مملكة البحرين ذات الصلة بنطاق التردد المعني.

انظر أيضا للقسم رقم ٤ للاطلاع على التفاصيل الكاملة للحواشي الوطنية للبحرين المذكورة في العمود الثاني.

#### العمود الثالث: Major Utilisation

يعرض هذا العمود، حسب الاقتضاء، معلومات تتعلق بنطاق التردد وبعض الخدمات المعينة إلى جانب الاستخدامات الرئيسية لطيف الاتصالات الراديوية. ومع ذلك فإن الاستخدامات المذكورة لخدمات اتصالات راديوية محددة لا تحول دون استخدام الخدمات الأخرى المشار إليها في العمود الثاني.

## العمود الرابع: <u>Additional Information</u>

يعرض هذا العمود معلومات تفصيلية عن خطط الترددات وترتيبات القنوات المستخدمة في المملكة فضلا عن أي ترتيبات اقتران بين النطاقات. ويمكن الرجوع أيضا إلى النصوص التنظيمية الأوروبية أو الاتحاد الدولي للاتصالات أو غيرها من النصوص التنظيمية التي تم اعتماد محتواها في المملكة، بالإضافة إلى تضمين معلومات أخرى ذات صلة في هذا العمود.

## أرقام الحواشي المميزة تحريرياً وتحتها خط: <u>Underlined italic bolded footnotes numbers</u>

تم تمييز الحواشي المتعلقة بمملكة البحرين أو البلدان المجاورة تحريرياً بخط مميز وداكن ووضع تحتها خط حيث تشمل هذه الحواشي استثناءات أو شروط أو قيود إلزامية يجب مراعاتها أو الامتثال لها في استخدام نطاقات التردد أو خدمات الاتصالات الراديوية في المملكة التي تنطبق عليها هذه الحواشي.

وبإيجاز، يعكس العمود الأول النطاق الترددي والخدمات المحددة في لوائح الراديو للاتحاد الدولي للاتصالات، وهي وثيقة تستند إلى معاهدات دولية، ويشير العمود الثاني إلى الخدمات في مملكة البحرين في نطاقات ترددية محددة. وفي معظم الحالات تكون نفس الخدمات المذكورة في العمود الأول. وحيثما لا تكون كذلك، توجد التفاصيل عموما في حاشية وطنية. وقد يكون السبب هو زيادة كفاءة استخدام الطيف الترددي أو الممارسة في بلد أو منطقة مجاورة، وبالتالي اعتبر أنه من الأفضل استخدام الترددات في المملكة بنفس الطريقة أو بطريقة مماثلة، في حين أن العمود الثالث هو عمود الإستخدام العالات تكون ويبين العمود الرابع معلومات مفيدة عن ترتيبات القنوات والترددات المقترنة فضلا عن المراجع الأخرى ذات الصلة.

# ٤ - الحواشى الوطنية

- الحدى أو جميع الخدمات المذكورة في العمود الثاني على أساس وطني في مملكة البحرين. ويجب ألا تسبب محطات هذه الخدمات الخدمات الوطنية تداخلا ضارا لمحطات خدمة الدول المجاورة العاملة وفقا للمادة ٥ من لوائح الراديو للاتحاد.
- BHR2 : يستخدم هذا النطاق الترددي أو جزء منه لخدمة هواة اللاسلكي على أساس أولي أو ثانوي وفقا للوائح تنظيم هذه الخدمة في مملكة البحرين. (متوفرة على www.iga.gov.bh)
- يستخدم هذا النطاق الترددي أو جزء منه لتطبيقات الوصلات الثابتة من نقطة إلى نقطة وفقاً للوائح / سياسات الوصلات الثابتة الشابتة في مملكة البحرين. (م*توفرة على www.iga.gov.bh)*
- يستخدم هذا النطاق الترددي أو جزء منه لتطبيقات الأجهزة قصيرة المدى (SRD) على أساس ثانوي وفقا للوائح تنظيم . هذه الخدمة في مملكة البحرين. (*متوفرة على www.iga.gov.bh)*

## ٥- التعاريف الرئيسية للاتحاد الدولى للإتصالات

تستند التعاريف التالية إلى لوائح الراديو للاتحاد الدولي للاتصالات وهي ذات صلة في سياق الخطة الوطنية للترددات:

- ١, توزيع (نطاق ترددات) Allocation (of a frequency band) : هو تدوين نطاق ترددات معين في جدول توزيع نطاقات الترددات، حتى تستعمله خدمة واحدة أو أكثر من خدمات الاتصالات الراديوية الفضائية أو للأرض، أو خدمة علم الفلك الراديوي وفق شروط خاصة. وينطبق هذا المصطلح كذلك على نطاق الترددات المعنى.
- Allotment (of a radio frequency or radio (بديوي أو قناة راديوية) Allotment (of a radio frequency or radio (بدر مختص، حتى تستعملها *إدارة* (frequency channel): هو تدوين قناة راديوية معينة في خطة اعتمدها مؤتمر مختص، حتى تستعملها *إدارة أو عدة إدارات لخدمة اتصالات راديوية فضائية* أو للأرض في بلد واحد أو في عدة بلدان، وفي منطقة واحدة أو في عدة مناطق جغرافية محددة، ووفقاً لشروط خاصة.
- Assignment (of a radio frequency or radio (تردد راديوي أو قناة راديوية) Assignment (of a radio frequency or radio : هو ترخيص تعطيه *إدار*ة إلى محطة راديوية لتستعمل تردداً راديوياً محدداً أو قناة راديوية محددة، وفقاً لشروط خاصة. راديوية محددة، وفقاً لشروط خاصة.
- ٤, الإقليم 1: يشمل الإقليم 1 المنطقة التي يحدها الخط A شرقاً (انظر تعريف الخطوط A و B و C أدناه) والخط B غرباً، باستثناء أراضي جمهورية إيران الإسلامية المحصورة بين هذين الحدين. كما يشمل كامل أراضي أرمينيا وأذربيجان والاتحاد الروسي وجورجيا وكاز اخستان ومنغوليا وأوزبكستان وقير غيزستان وطاجيكستان وتركمانستان وأذربيجان والاتحاد الروسي وجورجيا وكاز اخستان ومنغوليا وأوزبكستان وقير غيزستان وطاجيكستان وتركمانستان وتركمانيتان وقير غيزستان وطاح و كاني أوالخط B و آذربيجان والاتحاد الروسي وجورجيا وكاز اخستان ومنغوليا وأوزبكستان وقير غيزستان وطاجيكستان وتركمانستان وتركيا وأوكرانيا ومنطقة شمال الاتحاد الروسي المحصورة بين الخطين A و C كما هو مبين في الشكل التوضيحي (١).



- •, الإقليم 2: يشمل الإقليم 2 المنطقة التي يحدها الخط B شرقاً والخط C غرباً كما هو مبين في الشكل التوضيحي
   (١).
- ٢, ٥ / لإقليم 3: يشمل الإقليم 3 المنطقة التي يحدها الخط C شرقاً والخط A غرباً، باستثناء أراضي أرمينيا وأذربيجان والاتحاد الروسي وجورجيا وكاز اخستان ومنغوليا وأوزبكستان وقير غيزستان وطاجيكستان وتركيا وأكرابيا ومنطقة شمال الاتحاد الروسي. كما يشمل الجزء من أراضي جمهورية إيران الإسلامية الواقع خارج هذه الحدود كما هو مبين في الشكل التوضيحي (١).
- ٧, الخط A: ينطلق الخط A من القطب الشمالي ويتبع خط الزوال (دائرة الطول) 40 شرق غرينتش حتى خط التوازي (دائرة العرض) 40 شمالاً، ثم قوس الدائرة الكبرى حتى نقطة تقاطع دائرة الطول 60° شرقاً مع مدار السرطان، وأخيراً دائرة الطول 60° شرقاً حتى القطب الجنوبي.
- ٥, الخط B: ينطلق الخط B من القطب الشمالي ويتبع دائرة الطول 10° غرب غرينتش حتى تقاطعها مع دائرة العرض 72° شمالاً، ثم قوس الدائرة الكبرى حتى نقطة تقاطع خط الزوال (دائرة الطول) 50° غرباً وخط التوازي (دائرة العرض) 40° شمالاً، ثم من جديد، قوس الدائرة الكبرى حتى نقطة تقاطع دائرة الطول 20° غرباً ودائرة (دائرة العرض) 40° شمالاً، ثم من جديد، قوس الدائرة حتى القطب الجنوبي.

٩, الخط 2: ينطلق الخط C من القطب الشمالي ويتبع قوس الدائرة الكبرى حتى نقطة تقاطع دائرة العرض 65° 20' شمالا مع الحد الدولي لمضيق بيرنغ، ثم قوس الدائرة الكبرى حتى نقطة تقاطع دائرة الطول 165° شرق غرينتش مع دائرة العرض 50° شمالا مع الحرض 50° شمالا مع العرض 50° شمالا مع قوس الدائرة الكبرى حتى نقطة تقاطع دائرة الطول 100° غرباً ودائرة العرض 010 شمالا، ثم يسير مع دائرة العرض 10° شمالاً حتى تقاطع دائرة الطول 120° غرباً ودائرة العرض 10° شمالاً مع مالاً، ثم يسير مع دائرة العرض 10° شمالاً، ثم يسير مع دائرة العرض 10° شمالاً حتى تقاطع دائرة الطول 120° غرباً ودائرة العرض 10° شمالاً، ثم يسير مع دائرة العرض 10° شمالاً حتى تقاطعها مع دائرة الطول 120° غرباً، ويتبع أخيراً دائرة الطول 120° غرباً مع العرض 120° شمالاً، ثم يسير مع دائرة العرض 10° شمالاً حتى تقاطعها مع دائرة الطول 120° غرباً، ويتبع أخيراً دائرة الطول 120° مع يسير مع دائرة العرض 10° شمالاً من 120° شمالاً من 120° شمالاً، ثم يسير مع دائرة العرض 10° شمالاً حتى تقاطعها مع دائرة الطول 120° غرباً، ويتبع أخيراً دائرة الطول 120° مع مع دائرة العرض 120° مع مع دائرة العرض 120° مع دائرة العرف 120° مع دائرة الطول 120° مع دائرة الطول 120° مع دائرة مع دائرة الطول 120° مع دائرة مع 120° مع دائرة الطول 120° مع دائرة مع مع دائرة الطول 120° مع دائرة العوبي.

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- الخدمات الأولية Primary Services : خدمات الاتصالات الراديوية المفصلة في العمودين ١ و ٢ في
  الخطة الوطنية للترددات التي توجد في أحرف كبيرة (مثل MOBILE) لها أولوية، وهي أعلى فئة من النفاذ إلى
  الترددات الراديوية وتسمى الخدمات "الأولية".
- ٥,١١ خدمات الثانوية Secondary Services : خدمات الاتصالات الراديوية المفصلة في العمودين ١ و ٢ في الخطة الوطنية للترددات التي توجد في أحرف صغيرة (Mobile) تكون خدمات "ثانوية".

١,١١,١ وإن محطات الخدمة الثانوية:

- يجب ألا تسبب تداخلاً ضاراً لمحطات خدمة أولية، سبق أن خصصت لها ترددات، أو قد تخصص لها ترددات مستقبلاً.
- لا يجوز لها أن تطالب بالحماية من التداخلات الضارة التي تسببها محطات خدمة أولية سبق أن خصصت لها ترددات، أو قد تخصص لها ترددات مستقبلاً.
  - يحق لها أن تطالب بالحماية من التداخلات الضارة التي تسببها محطات هذه الخدمة أو محطات خدمة (خدمات) ثانوية أخرى قد تخصص لها ترددات مستقبلاً.
- عندما يتم سرد أكثر من خدمة واحدة بنفس الحالة، ترتيب في الجدول لا يشير إلى أي أولوية نسبية ببي ابين الخدمات المذكورة.
- ٩.١٣ 1) عندما تشير هذه اللوائح إلى أن خدمة ما أو محطات في خدمة ما يجوز تشغيلها في نطاق ترددات معين شريطة ألا تسبب تداخلاً ضاراً لخدمة أخرى أو لمحطة أخرى في الخدمة نفسها، فهذا يعني أيضاً أن هذه الخدمة الذي يجب ألا تسبب تداخلات ضارة لا يجوز لها أن تطالب بالحماية من التداخلات الضارة التي تسببها هذه الخدمة الأخرى أو المحطة الأخرى في الخدمة نفسها. *(الحاشية رقم ٦٤,٥ من لوائح الراديو)*
- ٥,١٣ 1 مكرراً) عندما تشير هذه اللوائح إلى أن خدمة ما أو محطات في خدمة ما يجوز تشغيلها في نطاق ترددات معين شريطة ألا تطالب بالحماية من خدمة أخرى أو من محطة أخرى في الخدمة نفسها، فهذا يعني أن الخدمة التي لا يجوز لها أن تطالب بالحماية يجب عليها ألا تسبب تداخلاً ضاراً للخدمة الأخرى أو للمحطة الأحرى في الخدمة نفسها. (الحاشية رقم ٤٣٨, من لوائح الراديو)



# ٦ \_ جدول الخطة الوطنية للترددات

8.3 kHz > <u>Next</u>

$0.5 \text{ km} > \frac{1}{100}$			
<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
Below 8.3 kHz	Below 8.3 kHz	Inductive Systems	
(Not allocated)	(Not allocated)		
<u>5.53</u> <u>5.54</u>			
8.3-9 kHz	8.3-9 kHz	Inductive Systems	
METEOROLOGICAL AIDS 5.54A 5.54B	METEOROLOGICAL AIDS		
5.54C	RADIONAVIGATION		
	FIXED		
	MOBILE		
9-11.3 kHz	9-11.3 kHz	Inductive Systems	
METEOROLOGICAL AIDS 5.54A	METEOROLOGICAL AIDS		
RADIONAVIGATION	RADIONAVIGATION		
	BHR4		
11.3-14 kHz	11.3-14 kHz	Inductive Systems	
RADIONAVIGATION	RADIONAVIGATION		
	BHR4		
14-19.95 kHz	14-19.95 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE <u>5.57</u>	MARITIME MOBILE		
5.55 <u>5.56</u>	BHR4		
19.95-20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	19.95-20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) BHR4	Inductive Systems	Refer to the ITU Radio Regulation Article 26
20.05-70 kHz	20.05-70 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE 5.57	MARITIME MOBILE		
<u>5.56</u> 5.58	BHR4		
70-72 kHz	70-72 kHz	Inductive Systems	
RADIONAVIGATION 5.60	RADIONAVIGATION		
72-84 kHz	BHR4 72-84 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE 5.57	MARITIME MOBILE		
RADIONAVIGATION 5.60	RADIONAVIGATION		
5.56	BHR4		
84-86 kHz	84-86 kHz	Inductive Systems	
RADIONAVIGATION <u>5.60</u>	RADIONAVIGATION		
	BHR4		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
86-90 kHz	86-90 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE 5.57	MARITIME MOBILE		
RADIONAVIGATION	RADIONAVIGATION		
<u>5.56</u>	BHR4		
90-110 kHz	90-110 kHz	Inductive Systems	
RADIONAVIGATION <u>5.62</u>	RADIONAVIGATION		
Fixed	Fixed		
5.64	BHR4		
110-112 kHz	110-112 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE	MARITIME MOBILE		
RADIONAVIGATION	RADIONAVIGATION		
5.64	BHR4		
112-115 kHz	112-115 kHz	Inductive Systems	
RADIONAVIGATION <u>5.60</u>	RADIONAVIGATION		
115-117.6 kHz	BHR4 115-117.6 kHz	Inductive Systems	
RADIONAVIGATION <u>5.60</u>	RADIONAVIGATION	inductive Systems	
Fixed	Fixed		
Maritime mobile	Maritime mobile		
<u>5.64</u> 5.66 117.6-126 kHz	BHR4 117.6-126 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE	MARITIME MOBILE		
RADIONAVIGATION <u>5.60</u>	RADIONAVIGATION		
5.64	BHR4		
126-129 kHz	126-129 kHz	Inductive Systems	
RADIONAVIGATION 5.60	RADIONAVIGATION		
	BHR4		
129-130 kHz	129-130 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE	MARITIME MOBILE		
RADIONAVIGATION <u>5.60</u>	RADIONAVIGATION		
5.64	BHR4		
130-135.7 kHz	130-135.7 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE	MARITIME MOBILE		
<u>5.64</u> 5.67	BHR4		
135.7-137.8 kHz	135.7-137.8 kHz	Inductive Systems	Stations in the amateur service using frequencies in the band 135.7-137.8
FIXED	FIXED		kHz shall not exceed a maximum
MARITIME MOBILE	MARITIME MOBILE		radiated power of 1 W (e.i.r.p.) and shall not cause harmful interference to



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
Amateur <u>5.67A</u>	Amateur BHR2		stations of the radionavigation service
<u>5.64</u> 5.67 5.67B	BHR4		operating in countries listed in No. 5.67
137.8-148.5 kHz	137.8-148.5 kHz	Inductive Systems	
FIXED	FIXED		
MARITIME MOBILE	MARITIME MOBILE		
<u>5.64</u> 5.67	BHR4		
148.5-255 kHz	148.5-255 kHz		Refer to the ITU GE75 Plan
BROADCASTING	BROADCASTING		
5.68 5.69 5.70	BHR4		
255-283.5 kHz	255-283.5 kHz		For Broadcasting refer to the ITU
BROADCASTING	BROADCASTING		GE75 Plan
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL		
5.70	RADIONAVIGATION		
	BHR4		

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<u>Top</u> <<300 kHz > <u>Next</u></u>

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
283.5-315 kHz	283.5-315 kHz		
AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		
(radiobeacons) <u>5.73</u> 5.72 <u>5.74</u>	MARITIME RADIONAVIGATION (radiobeacons)		
	BHR4		
315-325 kHz	315-325 kHz		
AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons)	AERONAUTICAL RADIONAVIGATION		
<u>5.73</u> 5.72 5.75	Maritime radionavigation (radiobeacons)		
5.72 5.15	BHR4		
325-405 kHz	325-405 kHz		
AERONAUTICAL RADIONAVIGATION 5.72	AERONAUTICAL RADIONAVIGATION		
	BHR4		
405-415 kHz	405-415 kHz		
RADIONAVIGATION 5.76	RADIONAVIGATION		
5.72	BHR4		
415-435 kHz	415-435 kHz	MARITIME	
MARITIME MOBILE 5.79	MARITIME MOBILE	MOBILE	
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		
	BHR4		
435-472 kHz	435-472 kHz	MARITIME	
MARITIME MOBILE 5.79	MARITIME MOBILE	MOBILE	
Aeronautical radionavigation 5.77	Aeronautical radionavigation		
<u>5.82</u>	BHR4		
472-479 kHz	472-479 kHz	MARITIME	
MARITIME MOBILE 5.79	MARITIME MOBILE	MOBILE	
Amateur 5.80A	Aeronautical radionavigation		
Aeronautical radionavigation 5.77 5.80	BHR4		
5.80B 5.82			



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>479-495 kHz</b> MARITIME MOBILE 5.79 <u>5.79A</u> Aeronautical radionavigation 5.77 <u>5.82</u>	<b>479-495 kHz</b> MARITIME MOBILE Aeronautical radionavigation <u>BHR4</u>	MARITIME MOBILE 490 kHz for NAVTEX (5.79A)	490 kHz to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy (5.82)
<u>495-505 kHz</u> MARITIME MOBILE <u>5.82C</u>	<b>495-505 kHz</b> MARITIME MOBILE <u>BHR4</u>		Used for international NAVDAT system as described in the most recent version of Recommendation ITU-R M.2010. NAVDAT transmitting stations are limited to coast stations
<b>505-526.5 kHz</b> MARITIME MOBILE 5.79 <u>5.79A</u> <u>5.84</u> AERONAUTICAL RADIONAVIGATION	505-526.5 kHz MARITIME MOBILE AERONAUTICAL RADIONAVIGATION BHR4	MARITIME MOBILE 518 kHz for NAVTEX (5.79A)	The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52 (5.84)
<b>526.5-1 606.5 kHz</b> BROADCASTING 5.87 5.87A	<b>526.5-1 606.5 kHz</b> BROADCASTING BHR4	Medium frequency (MF) AM Broadcasting	Refer to the ITU GE75 Plan
5.87 5.87A 1 606.5-1 625 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 1 625-1 635 kHz RADIOLOCATION 5.93 1 635-1 800 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96 1 800-1 810 kHz RADIOLOCATION 5.93 1 810-1 850 kHz	BHR4         1 606.5-1 625 kHz         FIXED         MARITIME MOBILE         LAND MOBILE         BHR4         1 625-1 635 kHz         RADIOLOCATION         BHR4         1 635-1 800 kHz         FIXED         MARITIME MOBILE         LAND MOBILE         BHR4         1 800-1 810 kHz         RADIOLOCATION         BHR4         1 800-1 810 kHz         RADIOLOCATION         BHR4         1 800-1 810 kHz         RADIOLOCATION         BHR4         1 810-1 850 kHz		Maximum power for Amateur is
AMATEUR 5.98 <u>5.99</u> <u>5.100</u> 5.101 <b>1 850-2 000 kHz</b> FIXED MOBILE except aeronautical mobile <u>5.92</u> 5.96 <u>5.103</u>	AMATEUR <u>BHR2</u> BHR4 1 850-2 000 kHz FIXED MOBILE except aeronautical mobile Amateur <u>BHR1 BHR2</u> BHR4		Maximum power for Amateur is 400W (e.i.r.p). Maximum power for Amateur is 10W (e.i.r.p).

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
2 000-2 025 kHz	2 000-2 025 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical		
<u>5.92</u> <u>5.103</u>	mobile (R)		
2 025-2 045 kHz	BHR4 2 025-2 045 kHz		
2 025-2 045 KHZ FIXED	2 025-2 045 KHZ FIXED		
	MOBILE except aeronautical		
MOBILE except aeronautical mobile (R) Meteorological aids <u>5.104</u>	mobile (R)		
5.92 5.103	Meteorological aids		
<u>5.72</u> <u>5.105</u>	BHR4		
2 045-2 160 kHz	2 045-2 160 kHz	MARITIME	
FIXED	FIXED	MOBILE	
MARITIME MOBILE	MARITIME MOBILE		
LAND MOBILE	LAND MOBILE		
<u>5.92</u>	BHR4		
2 160-2 170 kHz	2 160-2 170 kHz		
RADIOLOCATION	RADIOLOCATION		
5.93 <u>5.107</u>	BHR4		
2 170-2 173.5 kHz	2 170-2 173.5 kHz		
MARITIME MOBILE	MARITIME MOBILE	0.174.5111.6	The conditions for the use of the
2 173.5-2 190.5 kHz	2 173.5-2 190.5 kHz	2 174.5 kHz for Distress	band 2 173.5-2 190.5 kHz are
MOBILE (distress and calling)           5.108         5.109         5.110         5.111	MOBILE (distress and calling) <u>BHR4</u>	2 182 kHz for Distress and Calling	prescribed in Articles 31 and 52 (5.108)
		2 187.5 kHz for Distress for digital selective Calling	The conditions for the use of 2 187.5 kHz are prescribed in Article 31 (5.109)
			The conditions for the use of 2 174.5 kHz are prescribed in Articles 31 (5.110)
			The carrier frequency 2 182 kHz, may also be used in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions are prescribed in Article 31 (5.111)
<b>2 190.5-2 194 kHz</b> MARITIME MOBILE	2 190.5-2 194 kHz MARITIME MOBILE <u>BHR4</u>		



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
2 194-2 300 kHz FIXED MOBILE except aeronautical mobile (R) <u>5.92</u> 5.103 5.112	2 194-2 300 kHz FIXED MOBILE except aeronautical mobile (R) BHR4	MOBILE except aeronautical mobile (R)	
2 300-2 498 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING <u>5.113</u> <u>5.103</u>	2 300-2 498 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING BHR4	MOBILE except aeronautical mobile (R)	For Broadcasting, refer to the ITU Radio Regulation Article 23
2 498-2 501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	2 498-2 501 kHz STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz) BHR4		Refer to the ITU Radio Regulation Article 26
<b>2 501-2 502 kHz</b> STANDARD FREQUENCY AND TIME SIGNAL Space Research	2 501-2 502 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research BHR4		Refer to the ITU Radio Regulation Article 26 for SFTS
2 502-2 625 kHz FIXED MOBILE except aeronautical mobile (R) <u>5.92</u> 5.103 5.114	2 502-2 625 kHz FIXED MOBILE except aeronautical mobile (R) BHR4	MOBILE except aeronautical mobile (R)	
<b>2 625-2 650 kHz</b> MARITIME MOBILE MARITIME RADIONAVIGATION <u>5.92</u>	2 625-2 650 kHz MARITIME MOBILE MARITIME RADIONAVIGATION BHR4		
<b>2 650-2 850 kHz</b> FIXED MOBILE except aeronautical mobile (R) <u>5.92 5.103</u>	2 650-2 850 kHz FIXED MOBILE except aeronautical mobile (R) BHR4		
2 850-3 025 kHz AERONAUTICAL MOBILE (R) <u>5.111</u> <u>5.115</u>	2 850-3 025 kHz AERONAUTICAL MOBILE (R) BHR4	3 023 kHz for Search and rescue	The carrier frequency 3 023 kHz, may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31 (5.111, 5.115)

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RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
3 025-3 155 kHz	3 025-3 155 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE		
	(OR)		
3 155-3 200 kHz	BHR4 3 155-3 200 kHz	FIXED	
FIXED	FIXED	FIXED	
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical		
5.116 5.117	mobile (R)		
<u>5.110</u> 5.117	BHR4		
3 200-3 230 kHz	3 200-3 230 kHz	FIXED	For Broadcasting, refer to the ITU Radio Regulation Article 23
FIXED	FIXED		Radio Regulation Afficie 25
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical		
BROADCASTING <u>5.113</u>	mobile (R)		
<u>5.116</u>	BROADCASTING		
3 230-3 400 kHz	BHR4 3 230-3 400 kHz	FIXED	For Broadcasting, refer to the ITU
FIXED	FIXED	MOBILE except	Radio Regulation Article 23
MOBILE except aeronautical mobile	MOBILE except aeronautical	aeronautical	
BROADCASTING <u>5.113</u>	mobile	mobile	
<u>5.116</u> 5.118	BROADCASTING		
	BHR4		
3 400-3 500 kHz	3 400-3 500 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
3 500-3 800 kHz	3 500-3 800 kHz		Maximum power for Amateur is 100W (e.i.r.p).
AMATEUR	AMATEUR BHR2		100 w (e.i.i.p).
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
<u>5.92</u>	mobile		
3 800-3 900 kHz	BHR4 3 800-3 900 kHz	FIXED	
FIXED	FIXED	LAND MOBILE	
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE		
LAND MOBILE	(OR)		
	LAND MOBILE		
	BHR4		
3 900-3 950 kHz	3 900-3 950 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
5.123	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
3 950-4 000 kHz	3 950-4 000 kHz	FIXED	For Broadcasting, refer to the ITU
FIXED	FIXED		Radio Regulation Article 23
BROADCASTING	BROADCASTING		
	BHR4		
4 000-4 063 kHz	4 000-4 063 kHz	FIXED	
FIXED	FIXED		
MARITIME MOBILE 5.127	MARITIME MOBILE		
5.126	BHR4		
4 063-4 438 kHz	4 063-4 438 kHz	4 125 kHz for	The conditions for the use of 4 177.5
MARITIME MOBILE <u>5.79A</u> <u>5.109</u> <u>5.110</u> <u>5.130</u> <u>5.131</u> <u>5.132</u>	MARITIME MOBILE	Distress and Safety	kHz are prescribed in Articles 31 (5.110)
5.128		4 177.5 kHz for	
	BHR4	Distress	The conditions for the use of 4 207.5
		4 207.5 kHz for Distress for digital selective Calling	kHz are prescribed in Article 31 (5.109)
		4 209.5 kHz for NAVTEX (5.79A)	The conditions for the use of the carrier frequency 4 125 kHz is prescribed in
		4 210 kHz for maritime safety information	Articles 31 and 52 (5.130)
		(MSI)	4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques (5.131)
4 438-4 488 kHz	4 438-4 488 kHz	FIXED	
FIXED	FIXED	MOBILE except	
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical	aeronautical	
Radiolocation 5.132A	mobile (R)	mobile (R)	
5.132B	Radiolocation		
4 488-4 650 kHz	4 488-4 650 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)		
	BHR4		
4 650-4 700 kHz	4 650-4 700 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
4 700-4 750 kHz	4 700-4 750 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
4 750-4 850 kHz	4 750-4 850 kHz	LAND MOBILE	For Broadcasting refer to the ITU
FIXED	FIXED		Radio Regulation Article 23
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE		
LAND MOBILE	(OR)		
BROADCASTING <u>5.113</u>	LAND MOBILE		
	BROADCASTING		
	BHR4		
4 850-4 995 kHz	4 850-4 995 kHz	FIXED	For Broadcasting refer to the ITU Radio Regulation Article 23
FIXED	FIXED		0
LAND MOBILE	LAND MOBILE		
BROADCASTING <u>5.113</u>	BROADCASTING		
	BHR4		
4 995-5 003 kHz	4 995-5 003 kHz		Refer to the ITU Radio Regulation Article 26
STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)		
	BHR4		
5 003-5 005 kHz	5 003-5 005 kHz		Refer to the ITU Radio Regulation Article 26 for SFTS
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		
Space research	Space research		
	BHR4		
5 005-5 060 kHz	5 005-5 060 kHz		For Broadcasting, refer to the ITU Radio Regulation Article 23
FIXED	FIXED		0
BROADCASTING <u>5.113</u>	BROADCASTING		
5 060-5 250 kHz	BHR4 5 060-5 250 kHz	FIXED	
FIXED	FIXED	TIALD	
Mobile except aeronautical mobile	Mobile except aeronautical mobile		
5.133	BHR4		
5 250-5 275 kHz	5 250-5 275 kHz	FIXED	
FIXED	FIXED	MOBILE except	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	aeronautical mobile	
Radiolocation 5.132A			
5.133A	Radiolocation		
5 775 5 351 5 kHz	<u>BHR4</u>		
5 275-5 351.5 kHz	5 275-5 351.5 kHz		
FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical		
	mobile BHR4		
5 351.5 -5 366.5 kHz	5 351.5 -5 366.5 kHz		Stations in the amateur service usin
FIXED MOBILE except aeronautical mobile	FIXED		the frequency band 5 351.5-5 366.4 kHz shall not exceed a maximum radiated power of 15 W (e.i.r.p.)



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
Amateur <u>5.133B</u>	MOBILE except aeronautical mobile		Only 5 357.5 kHz and 5 363.5 kHz are allocated for Amateur.
	Amateur BHR2		
	BHR4		
5 366.5 -5 450 kHz	5 366.5 -5 450 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
5 450-5 480 kHz	5 450-5 480 kHz		
FIXED	FIXED		
AERONAUTICAL MOBILE (OR) LAND MOBILE	AERONAUTICAL MOBILE (OR)		
	LAND MOBILE		
	BHR4		
5 480-5 680 kHz	5 480-5 680 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
<u>5.111</u> <u>5.115</u>	BHR4		
5 680-5 730 kHz	5 680-5 730 kHz	5 680 kHz for	The carrier frequency 5 680 kHz,
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE	Search and rescue	may also be used, in accordance
<u>5.111</u>	(OR)		with the procedures in force for terrestrial radiocommunication
	<u>BHR4</u>		services, for search and rescue operations concerning manned space vehicles. The conditions are
			prescribed in Article 31 (5.111)
5 730-5 900 kHz	5 730-5 900 kHz	FIXED	
FIXED	FIXED		
LAND MOBILE	LAND MOBILE		
	BHR4		
5 900-5 950 kHz	5 900-5 950 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING 5.134	BROADCASTING		Article 12
<u>5.136</u>	BHR4		
5 950-6 200 kHz	5 950-6 200 kHz	HF Broadcasting	Refer to the ITU Radio Regulation Article 12
BROADCASTING	BROADCASTING		Article 12
	BHR4		
6 200 6 525 kHz	6 200-6 525 kHz	6 215 kHz for	The conditions for the rest of COCO
6 200-6 525 kHz		Distress and	The conditions for the use of 6 268 kHz are prescribed in Articles 31
MARITIME MOBILE <u>5.109</u> <u>5.110</u> <u>5.130</u> <u>5.132</u>	MARITIME MOBILE	Safety	(5.110)
<u>5.137</u>	BHR4	6 268 kHz for Distress	The conditions for the use of 6 312 kHz are prescribed in Article 31 (5.109)
		6 312 kHz for Distress for digital selective Calling	
		6 314 kHz for	prescribed in Articles 31 and 52
		maritime safety information (MSI)	(5.130).

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
6 525-6 685 kHz	6 525-6 685 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
6 685-6 765 kHz	6 685-6 765 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		
6 765-7 000 kHz	6 765-7 000 kHz	FIXED	
FIXED	FIXED		
MOBILE except aeronautical mobile (R) 5.138	MOBILE except aeronautical mobile (R)		
	BHR4		
7 000-7 100 kHz	7 000-7 100 kHz		Maximum power for Amateur is 400W (e.i.r.p).
AMATEUR	AMATEUR <u>BHR2</u>		ioom (eaa.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
5.140 5.141 5.141A	BHR4		
7 100-7 200 kHz	7 100-7 200 kHz		Maximum power for Amateur is 400W (e.i.r.p).
AMATEUR	AMATEUR <u>BHR2</u>		400W (C.I.I.P).
5.141A <u>5.141B</u>	FIXED		
	MOBILE except aeronautical mobile (R)		
	BHR4		
7 200-7 300 kHz	7 200-7 300 kHz		Refer to the ITU Radio Regulation Article 12
BROADCASTING	BROADCASTING		Afficie 12
	BHR4		
7 300-7 400 kHz	7 300-7 400 kHz		For Broadcasting refer to the ITU Radio Regulation Article 12
BROADCASTING <u>5.134</u>	BROADCASTING		Radio Regulation Article 12
<u>5.143</u> 5.143A <u>5.143B</u> <u>5.143C</u> 5.143D	FIXED		
	BHR4		
7 400-7 450 kHz	7 400-7 450 kHz		For Broadcasting refer to the ITU Radio Regulation Article 12
BROADCASTING	BROADCASTING		Radio Regulation Africie 12
<u>5.143B</u> <u>5.143C</u>	FIXED		
	BHR4		
7 450-8 100 kHz	7 450-8 100 kHz	FIXED	
FIXED	FIXED		
MOBILE except aeronautical mobile (R) 5.144	MOBILE except aeronautical mobile (R)		
0.400.0.40 <b></b>	BHR4		
8 100-8 195 kHz	8 100-8 195 kHz	MARITIME MOBILE	
FIXED	FIXED	MODILL	
MARITIME MOBILE	MARITIME MOBILE		
	BHR4		



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
8 195-8 815 kHz	8 195-8 815 kHz	8 291 kHz for	The conditions for the use of 8 376.5
MARITIME MOBILE <u>5.109</u> <u>5.110</u> <u>5.132</u>	MARITIME MOBILE	Distress and Safety	kHz are prescribed in Articles 31 (5.110)
<u>5.145</u> <u>5.111</u>	BHR4	8 364 kHz for Search and rescue	The conditions for the use of 8 414.5 kHz are prescribed in Article 31 (5.109)
		8 376.5 kHz for Distress	The carrier frequency 8 364 kHz, may also be used, in accordance with
		8 414.5 kHz for Distress for digital selective Calling	the procedures in force for terrestrial radiocommunication services, for search and rescue operations
		8 416.5 kHz for maritime safety information (MSI)	concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31 (5.111)
			The conditions for the use of the carrier frequency 8 291 kHz, is prescribed in Articles 31 and 52 (5.145)
8 815-8 965 kHz	8 815-8 965 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
8 965-9 040 kHz	8 965-9 040 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		
9 040-9 305 kHz	9 040-9 305 kHz		
FIXED	FIXED		
9 305-9 355 kHz	<u>BHR4</u> 9 305-9 355 kHz		
FIXED	FIXED		
Radiolocation 5.145A	Radiolocation		
5.145B	BHR4		
9 355-9 400 kHz	9 355-9 400 kHz		
FIXED	FIXED		
	BHR4		
9 400-9 500 kHz	9 400-9 500 kHz		Refer to the ITU Radio Regulation
BROADCASTING <u>5.134</u>	BROADCASTING		Article 12
5.146	BHR4		
9 500-9 900 kHz	9 500-9 900 kHz		Refer to the ITU Radio Regulation
BROADCASTING	BROADCASTING		Article 12
<u>5.147</u>	BHR4		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
9 900-9 995 kHz	9 900-9 995 kHz		
FIXED	FIXED		
	BHR4		
9 995-10 003 kHz	9 995-10 003 kHz		Refer to the ITU Radio Regulation
STANDARD FREQUENCY AND TIME	STANDARD FREQUENCY		Article 26
SIGNAL (10 000 kHz)	AND TIME SIGNAL (10 000		
<u>5.111</u>	kHz)		
	BHR4		
10 003-10 005 kHz	10 003-10 005 kHz		Refer to the ITU Radio Regulation Article 26
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		Antele 20
Space research	Space research		
<u>5.111</u>	BHR4		
10 005-10 100 kHz	10 005-10 100 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
<u>5.111</u>	BHR4		
10 100-10 150 kHz	10 100-10 150 kHz	FIXED	Maximum power for Amateur is
FIXED	FIXED		400W (e.i.r.p).
Amateur	Amateur BHR2		
	BHR4		
10 150-11 175 kHz	10 150-11 175 kHz	FIXED	
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
	BHR4		
11 175-11 275 kHz	11 175-11 275 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		
11 275-11 400 kHz	11 275-11 400 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
11 400-11 600 kHz	11 400-11 600 kHz		
FIXED	FIXED		
11 200 11 280 1 11	BHR4		D. f., t. d. ITH D. J'. D
11 600-11 650 kHz	11 600-11 650 kHz	HF Broadcasting	Refer to the ITU Radio Regulation Article 12
BROADCASTING <u>5.134</u>	BROADCASTING		
<u>5.146</u> 11 650-12 050 kHz	BHR4 11 650-12 050 kHz	UF Broadcastin -	Refer to the ITU Radio Regulation
		HF Broadcasting	Article 12
BROADCASTING	BROADCASTING		
<u>5.147</u> 12 050-12 100 kHz	BHR4 12 050-12 100 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
		in broadcastillg	Article 12
BROADCASTING <u>5.134</u> 5.146	BROADCASTING BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
12 100-12 230 kHz	12 100-12 230 kHz		
FIXED	FIXED		
	BHR4		
12 230-13 200 kHz	12 230-13 200 kHz	12 290 kHz for Distress and	The conditions for the use of 12 520 kHz are prescribed in Articles 31
MARITIME MOBILE <u>5.109</u> <u>5.110</u> <u>5.132</u>	MARITIME MOBILE	Safety	(5.110)
<u>5.145</u>	BHR4	12 520 kHz for Distress	The conditions for the use of 12 577 kHz are prescribed in Article 31 (5.109)
		12 577 kHz for Distress for digital selective Calling	The conditions for the use of the carrier frequency 12 290 kHz is prescribed in Articles 31 and 52
		12 579 kHz for maritime safety information (MSI)	(5.145)
13 200-13 260 kHz	13 200-13 260 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
12 260 12 260 14	<u>BHR4</u>		
13 260-13 360 kHz	13 260-13 360 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
13 360-13 410 kHz	<u>BHR4</u> 13 360-13 410 kHz	FIXED	
FIXED	FIXED	TIMED	
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149	BHR4		
13 410-13 450 kHz	13 410-13 450 kHz		
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
	BHR4		
13 450-13 550 kHz	13 450-13 550 kHz		
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
Radiolocation <u>5.132A</u>	Radiolocation		
5.149A	BHR4		
13 550-13 570 kHz	13 550-13 570 kHz	Mobile except	
FIXED	FIXED	aeronautical mobile (R)	
Mobile except aeronautical mobile (R)	Mobile except aeronautical	moone (R)	
<u>5.150</u>	mobile (R) BHR4		
13 570-13 600 kHz	13 570-13 600 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING 5.134	BROADCASTING		Article 12
<u>5.151</u>	BHR4		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
13 600-13 800 kHz	13 600-13 800 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING	BROADCASTING		Article 12
	BHR4		
13 800-13 870 kHz	13 800-13 870 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING <u>5.134</u>	BROADCASTING		Article 12
5.151	BHR4		
13 870-14 000 kHz	13 870-14 000 kHz		
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
	BHR4		
14 000-14 250 kHz	14 000-14 250 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR BHR2		400W (e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
	BHR4		
14 250-14 350 kHz	14 250-14 350 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR BHR2		400W (e.i.r.p).
5.152	BHR4		
14 350-14 990 kHz	14 350-14 990 kHz		
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
	BHR4		
14 990-15 005 kHz	14 990-15 005 kHz		Refer to the ITU Radio Regulation Article 26
STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)		
<u>5.111</u>	,		
15 005-15 010 kHz	BHR4 15 005-15 010 kHz		Refer to the ITU Radio Regulation
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		Article 26 for SFTS
Space research	Space research		
15 010-15 100 kHz	BHR4 15 010-15 100 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		
15 100-15 600 kHz	15 100-15 600 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING	BROADCASTING		Article 12
	BHR4		
15 600-15 800 kHz	15 600-15 800 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING 5.134	BROADCASTING		Article 12
5.146	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
15 800-16 100 kHz	15 800-16 100 kHz		
FIXED	FIXED		
5.153	BHR4		
16 100-16 200 kHz	16 100-16 200 kHz		
FIXED	FIXED		
Radiolocation 5.145A	Radiolocation		
5.145B	BHR4		
16 200-16 360 kHz	16 200-16 360 kHz		
FIXED	FIXED		
	BHR4		
16 360-17 410 kHz	16 360-17 410 kHz	16 420 kHz for Distress and	The conditions for the use of 16 695 kHz are prescribed in Articles 31
MARITIME MOBILE <u>5.109</u> <u>5.110</u> <u>5.132</u>	MARITIME MOBILE	Safety	(5.110)
<u>5.145</u>	BHR4	16 695 kHz for Distress	The conditions for the use of 16 804.5 kHz are prescribed in Article 31 (5.109)
		16 804.5 kHz for Distress for digital	The conditions for the use of the carrier frequency 16 420 kHz is
		selective Calling 16 806.5 kHz for	prescribed in Articles 31 and 52 (5.145)
		maritime safety information (MSI)	
17 410-17 480 kHz	17 410-17 480 kHz		
FIXED	FIXED		
	BHR4		
17 480-17 550 kHz	17 480-17 550 kHz	HF Broadcasting	Refer to the ITU Radio Regulation Article 12
BROADCASTING <u>5.134</u>	BROADCASTING		
5.146	BHR4		
17 550-17 900 kHz	17 550-17 900 kHz	HF Broadcasting	Refer to the ITU Radio Regulation Article 12
BROADCASTING	BROADCASTING		Andre 12
17 900-17 970 kHz	<u>BHR4</u> 17 900-17 970 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
17 970-18 030 kHz	<u>BHR4</u> 17 970-18 030 kHz		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE		
	(OR)		
18 030-18 052 kHz	BHR4 18 030-18 052 kHz		
FIXED	FIXED		
18 052-18 068 kHz	BHR4 18 052-18 068 kHz	FIXED	
18 052-18 068 KHZ FIXED		FIAED	
	FIXED		
Space research	Space research		
	BHR4		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
18 068-18 168 kHz	18 068-18 168 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR BHR2		400W (e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
5.154	BHR4		
18 168-18 780 kHz	18 168-18 780 kHz	FIXED	
FIXED Mobile except aeronautical mobile	FIXED Mobile except aeronautical		
woone except acronautear moone	mobile		
	BHR4		
18 780-18 900 kHz	18 780-18 900 kHz		
MARITIME MOBILE	MARITIME MOBILE		
	BHR4		
18 900-19 020 kHz	18 900-19 020 kHz		Refer to the ITU Radio Regulation
BROADCASTING <u>5.134</u>	BROADCASTING		Article 12
5.146	BHR4		
19 020-19 680 kHz	19 020-19 680 kHz		
FIXED	FIXED		
	BHR4		
19 680-19 800 kHz	19 680-19 800 kHz	19 680.5 kHz for	
MARITIME MOBILE <u>5.132</u>	MARITIME MOBILE	maritime safety information	
	BHR4	(MSI)	
19 800-19 990 kHz	19 800-19 990 kHz		
FIXED	FIXED		
	BHR4		
19 990-19 995 kHz	19 990-19 995 kHz		Refer to the ITU Radio Regulation
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		Article 26 for SFTS
Space research	Space research		
5.111	BHR4		
19 995-20 010 kHz	19 995-20 010 kHz		Refer to the ITU Radio Regulation Article 26
STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (20 000		Anice 20
<u>5.111</u>	kHz)		
20 010-21 000 kHz	BHR4 20 010-21 000 kHz		
FIXED	FIXED		
Mobile	Mobile		
21 000-21 450 kHz	BHR4 21 000-21 450 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR <b>BHR2</b>		400W (e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
	BHR4		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
21 450-21 850 kHz	21 450-21 850 kHz	HF Broadcasting	Refer to the ITU Radio Regulation Article 12
	BROADCASTING		Article 12
BROADCASTING	BHR4		
21 850-21 870 kHz	21 850-21 870 kHz		
FIXED 5.155A	FIXED		
5.155	BHR4		
21 870-21 924 kHz	21 870-21 924 kHz		
FIXED <u>5.155B</u>	FIXED		
	BHR4		
21 924-22 000 kHz	21 924-22 000 kHz		
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)		
	BHR4		
22 000-22 855 kHz	22 000-22 855 kHz	22 376 kHz for	
MARITIME MOBILE 5.132	MARITIME MOBILE	maritime safety information (MSI)	
5.156	BHR4		
22 855-23 000 kHz	22 855-23 000 kHz		
FIXED	FIXED		
5.156	BHR4		
23 000-23 200 kHz	23 000-23 200 kHz		
FIXED	FIXED		
Mobile except aeronautical mobile (R)	Mobile except aeronautical mobile (R)		
5.156	BHR4		
23 200-23 350 kHz	23 200-23 350 kHz		
FIXED <u>5.156A</u>	FIXED		
AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)		
	BHR4		
23 350-24 000 kHz	23 350-24 000 kHz	FIXED	
FIXED	FIXED		
MOBILE except aeronautical mobile 5.157	MOBILE except aeronautical mobile		
	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
24 000-24 450 kHz	24 000-24 450 kHz	FIXED	
FIXED	FIXED		
LAND MOBILE	LAND MOBILE		
	BHR4		
24 450-24 600 kHz	24 450-24 600 kHz	FIXED	
FIXED	FIXED		
LAND MOBILE	LAND MOBILE		
Radiolocation 5.132A	Radiolocation		
5.158	BHR4		
24 600-24 890 kHz	24 600-24 890 kHz	FIXED	
FIXED	FIXED		
LAND MOBILE	LAND MOBILE		
	BHR4		
24 890-24 990 kHz	24 890-24 990 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR BHR2		400W (e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
	BHR4		
24 990-25 005 kHz	24 990-25 005 kHz		Refer to the ITU Radio Regulation
STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)		Article 26
	BHR4		
25 005-25 010 kHz	25 005-25 010 kHz		Refer to the ITU Radio Regulation Article 26 for SFTS
STANDARD FREQUENCY AND TIME SIGNAL	STANDARD FREQUENCY AND TIME SIGNAL		Andre 20101 31 13
Space research	Space research BHR4		
25 010-25 070 kHz	25 010-25 070 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
25 070-25 210 kHz	25 070-25 210 kHz		
MARITIME MOBILE	MARITIME MOBILE		
	BHR4		
25 210-25 550 kHz	25 210-25 550 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
25 550-25 670 kHz	25 550-25 670 kHz		
RADIO ASTRONOMY	RADIO ASTRONOMY		
<u>5.149</u>	BHR4		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
25 670-26 100 kHz	25 670-26 100 kHz	HF Broadcasting	Refer to the ITU Radio Regulation
BROADCASTING	BROADCASTING		Article 12
	BHR4		
26 100-26 175 kHz	26 100-26 175 kHz	26 100.5 kHz for	
MARITIME MOBILE <u>5.132</u>	MARITIME MOBILE	maritime safety information (MSI)	
	BHR4		
26 175-26 200 kHz	26 175-26 200 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
26 200-26 350 kHz	26 200-26 350 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
Radiolocation 5.132A	mobile		
5.133A	Radiolocation		
	BHR4		
26 350-27 500 kHz	26 350-27 500 kHz		
FIXED	FIXED		
MOBILE except aeronautical mobile 5.150	MOBILE except aeronautical mobile		
5.150	BHR4		
27 500-28 000 kHz	27 500-28 000 kHz	FIXED	
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	MOBILE	
FIXED	FIXED		
MOBILE	MOBILE		
WODILE			
28 000-29 700 kHz	BHR4 28 000-29 700 kHz		Maximum power for Amateur is
AMATEUR	AMATEUR BHR2		500W (e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
AMATEOR-SATELLITE	AMATEUR-SATELLITE		

<u>*Top*</u> << 30 MHz > <u>*Next*</u>

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
29 700-30 005 kHz	29 700-30 005 kHz		
FIXED	FIXED		
MOBILE	MOBILE		
	BHR4		
30.005-30.01 MHz	30.005-30.01 MHz		
SPACE OPERATION (satellite identification)	SPACE OPERATION		
FIXED	(satellite identification)		
MOBILE	FIXED		
SPACE RESEARCH	MOBILE		
	SPACE RESEARCH		
	BHR4		
30.01-37.5 MHz	30.01-37.5 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
	BHR4		
37.5-38.25 MHz	37.5-38.25 MHz	MOBILE	
FIXED	FIXED		
MOBILE	MOBILE		
Radio astronomy	Radio astronomy		
<u>5.149</u>	BHR4		
38.25-39 MHz	38.25-39 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
	BHR4		
39-39.5 MHz	39-39.5 MHz	MOBILE	
FIXED	FIXED		
MOBILE	MOBILE		
Radiolocation 5.132A	Radiolocation		
5.159	BHR4		
39.5-39.986 MHz	39.5-39.986 MHz	MOBILE	
FIXED	FIXED		
MOBILE	MOBILE		
	BHR4		



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
39.986-40.02 MHz	39.986-40.02 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
Space research	Space research		
	BHR4		
40.02-40.98 MHz	40.02-40.98 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
5.150	BHR4		
40.98-41.015 MHz	40.98-41.015 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
Space research	Space research		
5.160 5.161	BHR4		
41.015-42 MHz	41.015-42 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
5.160 5.161 5.161A	BHR4		
42-42.5 MHz	42-42.5 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
Radiolocation 5.132A	Radiolocation		
5.160 5.161B	BHR4		
42.5-44 MHz	42.5-44 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
5.160 5.161 5.161A	BHR4		
44-47 MHz	44-47 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
5.162 5.162A	BHR4		
47-50 MHz	47-50 MHz		Refer to the ITU GE89 Plan
BROADCASTING	BROADCASTING		
5.162A 5.163 5.164 5.165	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
50-52 MHz	50-52 MHz		For Broadcasting refer to the ITU
BROADCASTING	BROADCASTING		GE89 Plan
Amateur 5.166A 5.166B 5.166C 5.166D	AMATEUR BHR2		The field strength generated by an amateur station shall not exceed a value
5.166E 5.169 <u>5.169A 5.169B</u>			of +6 dB( $\mu$ V/m) at a height of 10 m above ground for more than 10% of
5.162A 5.164 5.165			time along the borders of the countries listed in 5.169A
52-68MHz	52-54 MHz		The field strength generated by an
BROADCASTING	AMATEUR BHR2		amateur station shall not exceed a value of +6 dB( $\mu$ V/m) at a height of 10 m
5.162A 5.163 5.164 5.165	54-68 MHz	-	above ground for more than 10% of time along the borders of the countries
5.169 <u>5.169A 5.169B</u> 5.171	BROADCASTING		listed in 5.169A
			For BC refer to the ITU GE89 Plan
68-74.8 MHz	68-69.9 MHz		
FIXED	FIXED		
MOBILE except aeronautical mobile <u>5.149</u> 5.175 5.177	MOBILE except aeronautical mobile		
5.179	69.9-70.4 MHz		Maximum power for Amateur is 50W (e.i.r.p).
	FIXED		(e.i.r.p).
	MOBILE except aeronautical mobile		
	Amateur BHR1 BHR2		
	70.4-74.8 MHz		
	FIXED		
	MOBILE except aeronautical mobile		
74.8-75.2 MHz	74.8-75.2 MHz		
AERONAUTICAL RADIONAVIGATION 5.180 5.181	AERONAUTICAL RADIONAVIGATION		
75.2-87.5 MHz	75.2-87.5 MHz		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
5.175 5.179 5.187	mobile		
87.5-100 MHz	87.5-100 MHz	FM Broadcasting	Refer to the ITU GE84 Plan
BROADCASTING	BROADCASTING		
5.190	BHR4		
100-108 MHz	100-108 MHz	FM Broadcasting	Refer to the ITU GE84 Plan
BROADCASTING	BROADCASTING		
5.192 5.194	BHR4		
108-117.975 MHz	108-117.975 MHz		
AERONAUTICAL RADIONAVIGATION 5.197 <u>5.197A</u>	AERONAUTICAL RADIONAVIGATION		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
117.975-137 MHz	117.975-136 MHz	121.5 MHz for	121.5 MHz is the aeronautical
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE	aeronautical emergency	emergency frequency and, where required, the frequency 123.1 MHz is
<u>5.111 5.200</u> 5.201 <u>5.202</u>	(R)	emergency	the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the
	136-137 MHz		
	AERONAUTICAL MOBILE (R)		maritime mobile service may communicate on these frequencies under the conditions laid down in
	AERONAUTICAL MOBILE (OR)		Article 31 for distress and safety purposes with stations of the aeronautical mobile service (5.200)
137-137.025 MHz	137-137.025 MHz	MOBILE except	
SPACE OPERATION (space-to-Earth) <u>5.203C</u>	SPACE OPERATION (space-to-Earth)	aeronautical mobile (R)	
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth) <u>5.208A</u> <u>5.208B</u> <u>5.209</u>	MOBILE-SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space- to-Earth)		
Fixed	FIXED		
Mobile except aeronautical mobile (R) <u>5.204</u> 5.205 5.206 5.207 <u>5.208</u>	MOBILE except aeronautical mobile (R)		
137.025-137.175 MHz	137.025-137.175 MHz		
SPACE OPERATION (space-to-Earth) 5.203C	SPACE OPERATION (space-to-Earth)		
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-		
Fixed	to-Earth) FIXED		
Mobile except aeronautical mobile (R)	MOBILE except aeronautical		
Mobile-satellite (space-to-Earth) <u>5.208A</u> <u>5.208B</u> <u>5.209</u>	mobile (R) Mobile-satellite (space-to-		
<u>5.204</u> 5.205 5.206 5.207 <u>5.208</u>	Earth)		
137.175-137.825 MHz	137.175-137.825 MHz		
SPACE OPERATION (space-to-Earth) 5.203C 5.209A	SPACE OPERATION (space-to-Earth)		
METEOROLOGICAL-SATELLITE (space- to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth) <u>5.208A</u> <u>5.208B</u> <u>5.209</u>	MOBILE-SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-		
Fixed	to-Earth)		
Mobile except aeronautical mobile (R)	FIXED		
<u>5.204</u> 5.205 5.206 5.207 <u>5.208</u>	MOBILE except aeronautical mobile (R)		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
137.825-138 MHz	137.825-138 MHz		
SPACE OPERATION (space-to-Earth) 5.203C	SPACE OPERATION (space-to-Earth)		
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth) Fixed	SPACE RESEARCH (space- to-Earth)		
Mobile except aeronautical mobile (R)	FIXED		
Mobile-satellite (space-to-Earth) <u>5.208A</u> 5.208B 5.209	MOBILE except aeronautical mobile (R)		
<u>5.204</u> 5.205 5.206 5.207 <u>5.208</u>	Mobile-satellite (space-to- Earth)		
138-143.6 MHz	138-143.6 MHz		
AERONAUTICAL MOBILE (OR) 5.210 5.211 5.212 5.214	AERONAUTICAL MOBILE (OR)		
5.210 5.211 5.212 5.214	MARITIME MOBILE		
	LAND MOBILE		
	BHR4		
143.6-143.65 MHz	143.6-143.65 MHz		
AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)	AERONAUTICAL MOBILE (OR)		
<u>5.211</u> 5.212 5.214	SPACE RESEARCH (space- to-Earth)		
	MARITIME MOBILE		
	LAND MOBILE		
143.65-144 MHz	143.65-144 MHz		
AERONAUTICAL MOBILE (OR) 5.210 <i>5.211</i> 5.212 5.214	AERONAUTICAL MOBILE (OR)		
	MARITIME MOBILE		
	LAND MOBILE		
144-146 MHz	144-146 MHz		Maximum power for Amateur is 100W (e.i.r.p).
AMATEUR	AMATEUR BHR2		(c.n.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
5.216			
146-148 MHz	146-148 MHz	MOBILE except aeronautical mobile	PMR
FIXED	FIXED	(R)	
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)		
148-149.9 MHz	148-149.9 MHz	MOBILE except aeronautical mobile	PMR
FIXED	FIXED	(R)	
MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209	MOBILE except aeronautical mobile (R)		
<u>5.218 5.218A 5.219 5.221</u>	MOBILE-SATELLITE (Earth-to-space)		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
149.9-150.05 MHz	149.9-150.05 MHz		
MOBILE-SATELLITE (Earth-to-space) 5.209	MOBILE-SATELLITE (Earth-to-space)		
<u>5.220</u> 150.05-153 MHz	150.05-153 MHz	MOBILE except	PMR
FIXED	FIXED	aeronautical mobile	1 MIX
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
RADIO ASTRONOMY	RADIO ASTRONOMY		
<u>5.149</u> 153-154 MHz	153-154 MHz	MOBILE except	PMR
FIXED	FIXED	aeronautical mobile	
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical	(R)	
Meteorological aids	mobile (R)		
Meteorological alus	Meteorological aids		
154-156.4875 MHz	154-156.4875 MHz	From156.025 MHz	Standard Maritime channels according
FIXED	FIXED	VHF maritime mobile band	to Appendix 18.
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical mobile (R)	channels	
5.225A <u>5.226</u>			
156.4875-156.5625 MHz	156.4875-156.5625 MHz	156.525 MHz for Distress, Safety and	Standard Maritime channels according to Appendix 18.
MARITIME MOBILE (distress and calling via DSC) <u>5.111</u> <u>5.226</u> <u>5.227</u>	MARITIME MOBILE (distress and calling via DSC)	Calling (DSC)	The conditions for the use of the frequency 156.525 MHz and the band 156.4875-156.5625 MHz are contained in Articles 31 and 52, and in Appendix 18.
156.5625-156.7625 MHz	156.5625-156.7625 MHz		Standard Maritime channels according
FIXED	FIXED		to Appendix 18.
MOBILE except aeronautical mobile (R)	MOBILE except aeronautical		
5.226	mobile (R)		
156.7625-156.7875 MHz	156.7625-156.7875 MHz	MARITIME	Standard Maritime channels according to Appendix 18.
MARITIME MOBILE	MARITIME MOBILE	MOBILE	to Appendix 18.
Mobile-satellite (Earth-to-space)	Mobile-satellite (Earth-to-		
<u>5.111 5.226 5.228</u>	space)		
156.7875-156.8125 MHz	156.7875-156.8125 MHz	156.8 MHz for Distress, Safety and Calling	Standard Maritime channels according
MARITIME MOBILE (distress and calling)	MARITIME MOBILE		to Appendix 18.
<u>5.111</u> <u>5.226</u>	(distress and calling)	(DSC)	
156.8125-156.8375 MHz	156.8125-156.8375 MHz		Standard Maritime channels according
MARITIME MOBILE	MARITIME MOBILE		to Appendix 18.
Mobile-satellite (Earth-to-space)	Mobile-satellite (Earth-to-		
5.111 5.226 5.228	space)		
156.8375-157.1875 MHz	156.8375-157.1875 MHz		Standard Maritime channels according
FIXED	FIXED		to Appendix 18.
MOBILE except aeronautical mobile	MOBILE except aeronautical		
5.226	mobile		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>157.1875-157.3375 MHz</b> FIXED MOBILE except aeronautical mobile Maritime mobile-satellite <u>5.208A</u> <u>5.208B</u> <u>5.228AB</u> <u>5.228AC</u> <u>5.226</u>	<ul> <li>157.1875-157.3375 MHz</li> <li>FIXED</li> <li>MOBILE except aeronautical mobile</li> <li>Maritime mobile-satellite</li> </ul>		Maritime mobile-satellite service (Earth-to-space) is limited to non- GSO satellite systems operating in accordance with Appendix 18. Standard Maritime channels according to Appendix 18.
<b>157.3375-161.7875 MHz</b> FIXED MOBILE except aeronautical mobile <u>5.226</u>	<b>157.3375-161.7875 MHz</b> FIXED MOBILE except aeronautical mobile Maritime mobile-satellite		Standard Maritime channels according to Appendix 18.
161.7875-161.9375 MHz         FIXED         MOBILE except aeronautical mobile         Maritime mobile-satellite <u>5.208A</u> <u>5.208B</u> <u>5.228AB</u> <u>5.228AC</u> <u>5.226</u>	<ul><li>161.7875-161.9375 MHz</li><li>FIXED</li><li>MOBILE except aeronautical mobile</li><li>Maritime mobile-satellite</li></ul>		Maritime mobile-satellite service (Earth-to-space) is limited to non- GSO satellite systems operating in accordance with Appendix 18. Standard Maritime channels according to Appendix 18.
<b>161.9375-161.9625 MHz</b> FIXED MOBILE except aeronautical mobile Maritime mobile-satellite (Earth-to-space) <u>5.228AA</u> <u>5.226</u>	161.9375-161.9625 MHz FIXED MOBILE except aeronautical mobile Maritime mobile-satellite (Earth-to-space)		Standard Maritime channels according to Appendix 18.
161.9625-161.9875 MHz FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.228F 5.226 5.228A 5.228B	<ul> <li>161.9625-161.9875 MHz</li> <li>FIXED</li> <li>MOBILE except aeronautical mobile</li> <li>Mobile-satellite (Earth-to-space)</li> </ul>		Standard Maritime channels according to Appendix 18.



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
161.9875-162.0125 MHz	161.9875-162.0125 MHz		Standard Maritime channels according
FIXED	FIXED		to Appendix 18.
MOBILE except aeronautical mobile	MOBILE except aeronautical		
Maritime mobile-satellite (Earth-to-space) <u>5.228AA</u>	mobile Maritime mobile-satellite		
<u>5.226</u> 5.229	(Earth-to-space)		
162.0125-162.0375 MHz	162.0125-162.0375 MHz		Standard Maritime channels according to Appendix 18.
FIXED	FIXED		to rippendin for
MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) <u>5.228F</u>	MOBILE except aeronautical mobile		
<u>5.226</u> <u>5.228A</u> <u>5.228B</u> 5.229	Mobile-satellite (Earth-to- space)		
162.0375-174 MHz	162.0375-174 MHz		
FIXED	FIXED		
MOBILE except aeronautical mobile 5.226 5.229	MOBILE except aeronautical mobile		
	BHR4		
174-223 MHz	174-223 MHz	Broadcasting Band III DAB	Refer to the ITU GE06 Plan
BROADCASTING	BROADCASTING	III DAD	SAB
5.235 5.237 5.243	BHR4		
223-230 MHz	223-230 MHz	Broadcasting Band III DAB	For Broadcasting refer to the ITU GE06 Plan
BROADCASTING	BROADCASTING	III DAB	SAB
Fixed Mobile	AERONAUTICAL RADIONAVIGATION		SAD
5.243 5.246 <u>5.247</u>	Fixed		
5.245 5.240 <u>5.247</u>	Mobile		
230-235 MHz	230-235 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
<u>5.247</u> 5.251 5.252	AERONAUTICAL RADIONAVIGATION		
	BHR4		
235-267 MHz	235-267 MHz	243 MHz for survival craft	
FIXED	FIXED	stations and	
MOBILE	MOBILE	equipment used	
<u>5.111</u> 5.252 <u>5.254</u> <u>5.256</u> 5.256A	BHR4	for survival purposes	
267-272 MHz	267-272 MHz	FIXED	
FIXED	FIXED	MOBILE	
MOBILE	MOBILE		
Space operation (space-to-Earth)	Space operation (space-to- Earth)		
<u>5.254</u> <u>5.257</u>	BHR4		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
272-273 MHz	272-273 MHz		
SPACE OPERATION (space-to-Earth) FIXED MOBILE 5.254	SPACE OPERATION (space- to-Earth) FIXED MOBILE		
<u> </u>	BHR4		



<u>Top</u> << 300 MHz > <u>Next</u>

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
273-312 MHz	273-312 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
5.254	BHR4		
312-315 MHz	312-315 MHz		315 MHz Bahrain keyless system
FIXED	FIXED		
MOBILE	MOBILE		
Mobile-satellite (Earth-to-space) <u>5.254</u> <u>5.255</u>	Mobile-satellite (Earth-to- space)		
	BHR4		
315-322 MHz	315-322 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
<u>5.254</u>	BHR4		
322-328.6 MHz	322-328.6 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149	BHR4		
328.6-335.4 MHz	328.6-335.4 MHz		
AERONAUTICAL RADIONAVIGATION 5.258	AERONAUTICAL RADIONAVIGATION		
5.259	BHR4		
335.4-387 MHz	335.4-387 MHz		380-385 MHz paired with 390-395 MHz are harmonized PPDR for GCC
FIXED	FIXED		and other R1 countries
MOBILE	MOBILE		
5.254	BHR4		
387-390 MHz	387-390 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
Mobile-satellite (space-to-Earth) <u>5.208A</u> 5.208B <u>5.254</u> <u>5.255</u>	BHR4		
390-399.9 MHz	390-399.9 MHz		390-395 MHz paired with 380-385 MHz are harmonized PPDR for GCC
FIXED	FIXED		and other R1 countries
MOBILE	MOBILE		
<u>5.254</u>	<u>BHR4</u>		
399.9-400.05 MHz	399.9-400.05 MHz		
MOBILE-SATELLITE (Earth-to-space) 5.209 5.220 5.260A 5.260B	MOBILE-SATELLITE (Earth-to-space) <u>BHR4</u>		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
400.05-400.15 MHz	400.05-400.15 MHz		Refer to the ITU Radio Regulation
STANDARD FREQUENCY AND TIME	STANDARD FREQUENCY		Article 26 for SFTS
SIGNAL-SATELLITE (400.1 MHz)	AND TIME SIGNAL-		
<u>5.261</u> <u>5.262</u>	SATELLITE (400.1 MHz)		
	FIXED		
	MOBILE		
	BHR4		
400.15-401 MHz	400.15-401 MHz	MOBILE	
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
METEOROLOGICAL-SATELLITE (space- to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth) <u>5.208A</u> <u>5.208B</u> <u>5.209</u>	MOBILE-SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth) <u>5.263</u> Space operation (space-to-Earth)	SPACE RESEARCH (space- to-Earth)		
<u>5.262</u> <u>5.264</u>	FIXED		
<u>5.202</u> <u>5.204</u>	MOBILE		
	Space operation (space-to- Earth)		
	BHR4		
401-402 MHz	401-402 MHz	Mobile except	
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	aeronautical mobile	
SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE	SPACE OPERATION (space- to-Earth)		
(Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-	EARTH EXPLORATION- SATELLITE (Earth-to-space)		
to-space) Fixed	METEOROLOGICAL- SATELLITE (Earth-to-space)		
Mobile except aeronautical mobile	Fixed		
	Mobile except aeronautical mobile		
<u>5.264A</u> <u>5.264B</u>	BHR4		
402-403 MHz	402-403 MHz	Mobile except	
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	aeronautical mobile	
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION- SATELLITE (Earth-to-space)		
(Earth-to-space)	· · · ·		
(Earth-to-space) METEOROLOGICAL-SATELLITE (Earth- to-space)	METEOROLOGICAL- SATELLITE (Earth-to-space)		
METEOROLOGICAL-SATELLITE (Earth-	METEOROLOGICAL-		
METEOROLOGICAL-SATELLITE (Earth-to-space)	METEOROLOGICAL- SATELLITE (Earth-to-space)		


<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>403-406 MHz</b> METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile <u>5.265</u>	403-406 MHz METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile BHR4	Mobile except aeronautical mobile	PMR Resolve 1 in Resolution 205 (Rev.WRC-15) to request administrations not to make new frequency assignments within the frequency bands <b>405.9-406.0 MHz and</b> <b>406.1-406.2 MHz</b> under the mobile and fixed services.
<b>406-406.1 MHz</b> MOBILE-SATELLITE (Earth-to-space) <u>5.265</u> <u>5.266</u> <u>5.267</u>	406-406.1 MHz MOBILE-SATELLITE (Earth-to-space) BHR4	COSPAS-SARSAT Mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons	Resolve 1 in Resolution 205 (Rev.WRC-15) to request administrations not to make new frequency assignments within the frequency bands <b>405.9-406.0 MHz and</b> <b>406.1-406.2 MHz</b> under the mobile and fixed services
<b>406.1-410 MHz</b> FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY <u>5.149</u> <u>5.265</u>	406.1-410 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY BHR4	FIXED MOBILE except aeronautical mobile	PMR Resolve 1 in Resolution 205 (Rev.WRC-15) to request administrations not to make new frequency assignments within the frequency bands <b>405.9-406.0 MHz and</b> <b>406.1-406.2 MHz</b> under the mobile and fixed services
<b>410-420 MHz</b> FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) <u>5.268</u>	410-420 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space- to-space) BHR4	FIXED MOBILE except aeronautical mobile	Private PMR and eLTE networks
<b>420-430 MHz</b> FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271	420-430 MHz FIXED MOBILE except aeronautical mobile BHR4		Private PMR and eLTE networks
<b>430-432 MHz</b> AMATEUR RADIOLOCATION 5.271 5.272 5.273 5.274 5.275 <u>5.276</u> 5.277	430-432 MHz AMATEUR <u>BHR2</u> FIXED MOBILE except aeronautical mobile <u>BHR4</u>		PMR Maximum power for Amateur is 25W (e.i.r.p). AMATEUR 430.2 MHz and 431.2 MHz

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
432-438 MHz	432-435 MHz	FIXED	PMR
AMATEUR	FIXED	MOBILE except	435 - 438 MHz utilized to be used for
RADIOLOCATION	MOBILE except aeronautical mobile	aeronautical mobile	Mobile except aeronautical mobile in Bahrain
Earth exploration-satellite (active) 5.279A	Earth exploration-satellite		
<u>5.138</u> 5.271 5.272 <u>5.276</u> 5.277 5.280 5.281 <u>5.282</u>	(active)		
	BHR4	-	
	435-438 MHz		
	FIXED		
	MOBILE except aeronautical mobile <u>BHR1</u>		
	Earth exploration-satellite (active)		
	BHR4		
438-440 MHz	438-440 MHz		PMR
AMATEUR	FIXED		
RADIOLOCATION	MOBILE except aeronautical mobile		
5.271 5.273 5.274 5.275 <u>5.276</u> 5.277 5.283	BHR4		
440-450 MHz	440-450 MHz		PMR
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
Radiolocation	BHR4		
5.269 5.270 5.271 5.284 5.285 <u>5.286</u> 450-455 MHz	450-455 MHz		PMR
FIXED	FIXED		
MOBILE <u>5.286AA</u>	MOBILE		
<u>5.209</u> 5.271 <u>5.286</u> <u>5.286A</u> 5.286B 5.286C 5.286D 5.286E	BHR4		
455-456 MHz	455-456 MHz		PMR
FIXED	FIXED		
MOBILE <u>5.286AA</u>	MOBILE		
<u>5.209</u> 5.271 <u>5.286A</u> 5.286B 5.286C 5.286E 456-459 MHz	<u>BHR4</u> 456-459 MHz		D) (D)
FIXED	FIXED		PMR
MOBILE 5.286AA	MOBILE		
5.271 5.287 5.288	BHR4		
459-460 MHz	459-460 MHz		PMR
FIXED	FIXED		
MOBILE	MOBILE		
<u>5.286AA</u> <u>5.209</u> 5.271 <u>5.286A</u> 5.286B 5.286C 5.286E	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>460-470 MHz</b> FIXED MOBILE <u>5.286AA</u> Meteorological-satellite (space-to-Earth) <u>5.287</u> 5.288 <u>5.289</u> 5.290	460-470 MHz FIXED MOBILE Meteorological-satellite (space-to-Earth) BHR4		PMR
<b>470-694 MHz</b> BROADCASTING <u>5.149</u> 5.291A <u>5.294</u> <u>5.296</u> <u>5.300</u> 5.304 5.306 5.312	470-694 MHz BROADCASTING Land mobile <u>BHR4</u>	Broadcasting digital TV GE06 Plan	Land mobile for the applications ancillary to broadcasting and programme-making. For Broadcasting refer to the ITU GE06 Plan SAB - SAP
<b>694-790 MHz</b> MOBILE except aeronautical mobile <u>5.312A</u> <u>5.317A</u> BROADCASTING <u>5.300</u> 5.312	694-790 MHz MOBILE except aeronautical mobile BHR4	IMT Portion of this band is allocated for PPDR	This service is subject to the provisions of Resolution 232 (WRC-12). See also Resolution 224 (Rev.WRC-12) (5.312A)
<b>790-862 MHz</b> FIXED MOBILE except aeronautical mobile <u>5.316B</u> <u>5.317A</u> BROADCASTING 5.312 5.319	790-862 MHz MOBILE except aeronautical mobile BHR4	IMT	Can be used subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that greement. Resolutions 224 (Rev.WRC-12) and 749 (Rev.WRC-12) shall apply, as appropriate (5.316B)
<b>862-890 MHz</b> FIXED MOBILE except aeronautical mobile <u>5.317A</u> BROADCASTING 5.322 5.319 5.323	862-890 MHz MOBILE except aeronautical mobile <u>BHR4</u>	IMT	SRD 863-870 MHz GCC harmonized Railways 876-880 paired with 921-925 MHz
<b>890-942 MHz</b> FIXED MOBILE except aeronautical mobile <u>5.317A</u> BROADCASTING 5.322 Radiolocation 5.323	890-942 MHz MOBILE except aeronautical mobile BHR4	IMT	GCC harmonized Railways 876-880 paired with 921-925 MHz

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
942-960 MHz	942-960 MHz	IMT	
FIXED	MOBILE except aeronautical		
MOBILE except aeronautical mobile 5.317A	mobile		
BROADCASTING 5.322 5.323	<u>BHR4</u>		
960-1 164 MHz	960-1 164 MHz		DME landing\ground
AERONAUTICAL MOBILE (R) 5.327A	AERONAUTICAL MOBILE		reply\interrogation
AERONAUTICAL RADIONAVIGATION	(R)		
5.328	AERONAUTICAL RADIONAVIGATION		
<u>5.328AA</u>	BHR4		
1 164-1 215 MHz	1 164-1 215 MHz		DME landing\ground
AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION		reply\interrogation
RADIONAVIGATION-SATELLITE (space-	RADIONAVIGATION-		
to-Earth) (space-to-space) <u>5.328B</u>	SATELLITE (space-to-Earth) (space-to-space)		
<u>5.328A</u>	BHR4		
1 215-1 240 MHz	1 215-1 240 MHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION-SATELLITE (space- to-Earth) (space-to-space) <u>5.3288</u> <u>5.329</u> <u>5.3294</u>	RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space)		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.330 5.331 5.332</u>	FIXED		
	MOBILE		
	RADIONAVIGATION		
	BHR4		
1 240-1 300 MHz	1 240-1 300 MHz		Maximum power for Amateur is 100W (e.i.r.p).
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Amateur in the band 1296-1296.4 MHz only
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION-SATELLITE (space- to-Earth) (space-to-space) <u>5.3288</u> <u>5.329</u> <u>5.329A</u>	RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space)		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
Amateur	FIXED		
<u>5.282</u> <u>5.330</u> <u>5.331</u> <u>5.332</u> 5.335 <u>5.335A</u>	MOBILE		
	RADIONAVIGATION		
	Amateur BHR2		
	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
1 300-1 350 MHz	1 300-1 350 MHz		
RADIOLOCATION	RADIOLOCATION		
AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION		
RADIONAVIGATION-SATELLITE (Earth-to-space)	RADIONAVIGATION- SATELLITE (Earth-to-space)		
<u>5.149</u> <u>5.337A</u>	BHR4		
1 350-1 400 MHz	1 350-1 400 MHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIOLOCATION	RADIOLOCATION		
<u>5.149</u> 5.338 <u>5.338A</u> <u>5.339</u>	BHR4		
1 400-1 427 MHz	1 400-1 427 MHz	Passive Band	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.341</u>	BHR4		
1 427-1 429 MHz	1 427-1 429 MHz	IMT	
SPACE OPERATION (Earth-to-space)	FIXED		
FIXED MOBILE except aeronautical mobile 5.341A	MOBILE except aeronautical mobile		
5.341B 5.341C	BHR4		
<u>5.338A</u> <u>5.341</u>			
1 429-1 452 MHz	1 429-1 452 MHz	IMT	
FIXED	FIXED		
MOBILE except aeronautical mobile <u>5.341A</u> 5.338A 5.341 5.342	MOBILE except aeronautical mobile		
	BHR4		
1 452-1 492 MHz	1 452-1 492 MHz	IMT	Commercial and Private LTE Networks
FIXED MOBILE except aeronautical mobile <u>5.346</u>	FIXED MOBILE except aeronautical		
BROADCASTING	mobile		
BROADCASTING-SATELLITE <u>5.208B</u>	BHR4		
<u>5.341</u> 5.342 <u>5.345</u>			
1 492-1 518 MHz	1 492-1 518 MHz	IMT	
FIXED	FIXED		
MOBILE except aeronautical mobile <u>5.341A</u> <u>5.341</u> 5.342	MOBILE except aeronautical mobile		
	BHR4		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
1 518-1 525 MHz	1 518-1 525 MHz		Mobile Satellite Systems
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
MOBILE-SATELLITE (space-to-Earth) <u>5.348</u> <u>5.348A</u> <u>5.348B</u> <u>5.351A</u>	MOBILE-SATELLITE		
<u>5.341</u> 5.342	(space-to-Earth) BHR4		
1 525-1 530 MHz	1 525-1 530 MHz		Mobile Satellite Systems
SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space- to-Earth)		
FIXED	FIXED		
MOBILE-SATELLITE (space-to-Earth) <u>5.208B</u> <u>5.351A</u>	MOBILE-SATELLITE (space-to-Earth)		
Earth exploration-satellite	MOBILE except aeronautical		
Mobile except aeronautical mobile 5.349	mobile		
<u>5.341</u> 5.342 5.350 <u>5.351</u> <u>5.352A</u> <u>5.354</u>	Earth exploration-satellite		
<u>5.5527</u>	BHR4		
1 530-1 535 MHz	1 530-1 535 MHz	1 530-1 544 MHz	Mobile Satellite Systems
SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space- to-Earth)	for GMDSS	Priority shall be given to accommodating the spectrum requirements for distress, urgency ar safety communications of the Globa
MOBILE-SATELLITE (space-to-Earth) <u>5.208B</u> <u>5.351A</u> <u>5.353A</u>	MOBILE-SATELLITE (space-to-Earth)		
Earth exploration-satellite	Earth exploration-satellite		
Fixed	Fixed		Maritime Distress and Safety System (GMDSS) (5.353A)
Mobile except aeronautical mobile	Mobile except aeronautical		()
<u>5.341</u> 5.342 <u>5.351</u> <u>5.354</u>	mobile		
	BHR4		
1 535-1 559 MHz	1 535-1 540 MHz	1 530-1 544 MHz	Mobile Satellite Systems
MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A	MOBILE-SATELLITE (space-to-Earth)	for GMDSS	Priority shall be given to accommodating the spectrum requirements for distress, urgency and
<u>5.341</u> <u>5.351</u> <u>5.353A</u> <u>5.354</u> <u>5.355</u> <u>5.356</u>	BHR4		safety communications of the Global
5.357 <u>5.357A</u> <u>5.359</u> 5.362A	1 540-1 559 MHz	1 544-1 545 MHz	Maritime Distress and Safety System
	MOBILE-SATELLITE (space-to-Earth)	for GMDSS	(GMDSS) (5.353A)
	Fixed		
	BHR4		
1 559-1 610 MHz	1 559-1 610 MHz		Radionavigation Systems
AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-	AERONAUTICAL RADIONAVIGATION		
to-Earth) (space-to-space) <u>5.208B</u> <u>5.328B</u> <u>5.329A</u> <u>5.341</u>	RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space)		
<u>5.871</u>	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
1 610-1 610.6 MHz	1 610-1 610.6 MHz		Mobile Satellite Systems
MOBILE-SATELLITE (Earth-to-space) 5.351A	MOBILE-SATELLITE (Earth-to-space)		Radionavigation Systems
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL		
<u>5.341</u> <u>5.355</u> <u>5.359</u> <u>5.364</u> <u>5.366</u> <u>5.367</u> <u>5.368</u>	RADIONAVIGATION		
5.369 <u>5.371</u> <u>5.372</u>	Fixed		
1 610.6-1 613.8 MHz	BHR4 1 610.6-1 613.8 MHz		Mobile Satellite Systems
MOBILE-SATELLITE (Earth-to-space) 5.351A	MOBILE-SATELLITE (Earth-to-space)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL		
<u>5.149</u> <u>5.341</u> <u>5.355</u> <u>5.359</u> <u>5.364</u> <u>5.366</u> <u>5.367</u>	RADIONAVIGATION		
<u>5.368</u> 5.369 <u>5.371</u> 5.372	Fixed		
	<u>BHR4</u>		Mobile Satellite Systems
1 613.8-1 621.35 MHz	1 613.8-1 621.35 MHz		Woone Saterine Systems
MOBILE-SATELLITE (Earth-to-space) <u>5.351A</u>	MOBILE-SATELLITE (Earth-to-space)		
AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		
Mobile-satellite (space-to-Earth) <u>5.208B</u>	Mobile-satellite (space-to-		
<u>5.341</u> 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	Earth)		
	Fixed		
1 621.35-1 626.5 MHz	BHR4 1 621.35-1 626.5 MHz		Mobile Satellite Systems
	MARIIME MOBILE-		woone satemite systems
MARIIME MOBILE-SATELLITE (space-to- Earth) 5.373 5.373A	SATELLITE (space-to- Earth)		
MOBILE-SATELLITE (Earth-to-space) <u>5.351A</u>	MOBILE-SATELLITE		
AERONAUTICAL RADIONAVIGATION	(Earth-to-space)		
Mobile-satellite (space-to-Earth) except maritime mobile satellite (space-to-Earth)	AERONAUTICAL RADIONAVIGATION		
	Mobile-satellite (space-to- Earth) except maritime		
<u>5.208B 5.341 5.355 5.359 5.364 5.365</u> <u>5.366 5.367 5.368</u> 5.369 <u>5.371</u> 5.372	mobile satellite (space-to- Earth)		
	Fixed		
	BHR4		M.1.1. 0. 4.114. Co. 1
1 626.5-1 660 MHz	1 626.5-1 645.5 MHz	1 626.5-1 645.5 MHz for GMDSS	Mobile Satellite Systems
MOBILE-SATELLITE (Earth-to-space) 5.351A	MOBILE-SATELLITE (Earth-to-space)		Priority shall be given to accommodating the spectrum requirements for distress, urgency and
<u>5.341</u> <u>5.351</u> <u>5.353A</u> <u>5.354</u> <u>5.355</u> <u>5.357A</u>	Fixed		safety communications of the Global Maritime Distress and Safety System
<u>5.359</u> 5.362A <u>5.374</u> <u>5.375</u> 5.376	BHR4		(GMDSS) (5.353A)
	1 645.5-1 646.5 MHz		Mobile Satellite Systems
	MOBILE-SATELLITE (Earth-to-space)		

	The Kingdom's National		
<b>RR Region 1 Allocations</b>	Frequency Allocations	Major Utilisation	Additional Information
	1 646.5-1 660 MHz		Mobile Satellite Systems
	MOBILE-SATELLITE		
	(Earth-to-space)		
	Fixed		
	<u>BHR4</u>		
1 660-1 660.5 MHz	1 660-1 660.5 MHz		Mobile Satellite Systems
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE		
<u>5.351A</u> RADIO ASTRONOMY	(Earth-to-space) RADIO ASTRONOMY		
<u>5.149 5.341 5.351 5.354</u> 5.362A <u>5.376A</u>	BHR4		
1 660.5-1 668 MHz	1 660.5-1 668 MHz		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
Fixed	Fixed		
Mobile except aeronautical mobile	Mobile except aeronautical		
<u>5.149</u> <u>5.341</u> 5.379 <u>5.379A</u>	mobile		
1 668-1 668.4 MHz	BHR4 1 668-1 668.4 MHz		Mobile Satellite Systems
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE		
<u>5.351A</u>	(Earth-to-space)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
Fixed	Fixed		
Mobile except aeronautical mobile	Mobile except aeronautical mobile		
<u>5.149</u> <u>5.341</u> 5.379 <u>5.379A</u>	BHR4		
1 668.4-1 670 MHz	1 668.4-1 670 MHz		Mobile Satellite Systems
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE		
<u>5.351A</u>	(Earth-to-space)		
<u>5.149</u> 5.341 5.379D 5.379E	RADIO ASTRONOMY BHR4		
1 670-1 675 MHz	1 670-1 675 MHz		Mobile Satellite Systems
METEOROLOGICAL AIDS FIXED	METEOROLOGICAL AIDS FIXED		
METEOROLOGICAL-SATELLITE (space-	METEOROLOGICAL-		
to-Earth)	SATELLITE (space-to-Earth)		
MOBILE	MOBILE		
MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B	MOBILE-SATELLITE (Earth-to-space)		
<u>5.341</u> <u>5.379D</u> <u>5.379E</u> <u>5.380A</u>	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
1 675-1 690 MHz	1 675-1 690 MHz		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
FIXED	FIXED		
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE except aeronautical mobile 5.341	MOBILE except aeronautical mobile		
	BHR4		
1 690-1 700 MHz	1 690-1 700 MHz		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
METEOROLOGICAL-SATELLITE (space- to-Earth) Fixed	METEOROLOGICAL- SATELLITE (space-to- Earth)		
	FIXED		
Mobile except aeronautical mobile           5.289         5.341         5.382	MOBILE except aeronautical mobile		
	BHR4		
1 700-1 710 MHz	1 700-1 710 MHz		
FIXED	FIXED		
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
<u>5.289</u> <u>5.341</u>	mobile		
	<u>BHR4</u>		
1 710-1 930 MHz	1 710-1 930 MHz	IMT	DECT 1880-1900 MHz
FIXED	FIXED		
MOBILE <u>5.384A</u> <u>5.388A</u> <u>5.388B</u>	MOBILE		
<u>5.149</u> <u>5.341</u> <u>5.385</u> 5.386 5.387 <u>5.388</u>	BHR4		
1 930-1 970 MHz	1 930-1 970 MHz	IMT	
FIXED	FIXED		
MOBILE <u>5.388A</u> <u>5.388B</u>	MOBILE		
<u>5.388</u>	BHR4		
1 970-1 980 MHz	1 970-1 980 MHz	IMT	
FIXED	FIXED		
MOBILE <u>5.388A</u> <u>5.388B</u>	MOBILE		
5.388	BHR4		
1 980-2 010 MHz	1 980-2 010 MHz	IMT	
FIXED	FIXED		
MOBILE	MOBILE		
MOBILE-SATELLITE (Earth-to-space) 5.351A	MOBILE-SATELLITE (Earth-to-space)		
<u>5.388</u> <u>5.389A</u> 5.389B 5.389F	BHR4		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
2 010-2 025 MHz FIXED MOBILE <u>5.388A</u> <u>5.388B</u> 5.388	2 010-2 025 MHz FIXED MOBILE BHD 4	IMT	The use of the band by the mobile- satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.
2 025-2 110 MHz	BHR4 2 025-2 080 MHz	FIXED	(refer to 5.389E)
SPACE OPERATION (Earth-to-space) (space-to-space)	SPACE OPERATION (Earth- to-space) (space-to-space)	MOBILE	
EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space)	EARTH EXPLORATION- SATELLITE (Earth-to-space) (space-to-space)		
FIXED	(space-to-space) FIXED		
MOBILE <u>5.391</u>	MOBILE		
SPACE RESEARCH (Earth-to-space) (space- to-space) 5.392	SPACE RESEARCH (Earth- to-space) (space-to-space)		
5.572	BHR4		
	2 080-2 110 MHz	SPACE OPED A TION	
	SPACE OPERATION (Earth- to-space) (space-to-space)	OPERATION EARTH EXPLORATION-	
	EARTH EXPLORATION- SATELLITE (Earth-to-space) (space-to-space)	SATELLITE SPACE	
	SPACE RESEARCH (Earth- to-space) (space-to-space)	RESEARCH	
	BHR4		
2 110-2 120 MHz	2 110-2 120 MHz	IMT	
FIXED	FIXED MOBILE		
MOBILE <u>5.388A</u> <u>5.388B</u> SPACE RESEARCH (deep space) (Earth-to- space)	BHR4		
<u>5.388</u>			
2 120-2 160 MHz	2 120-2 160 MHz	IMT	
FIXED	FIXED		
MOBILE <u>5.388A</u> <u>5.388B</u>	MOBILE		
<u>5.388</u>	BHR4		
2 160-2 170 MHz	2 160-2 170 MHz	IMT	The use of the band by the mobile-
FIXED	FIXED		satellite service in Region 2 shall not cause harmful interference to or
MOBILE <u>5.388A</u> <u>5.388B</u>	MOBILE		constrain the development of the fixed and mobile services in Regions 1 and 3.
<u>5.388</u>	BHR4		(refer to 5.389E)
2 170-2 200 MHz	2 170-2 200 MHz	IMT	
FIXED	FIXED		
MOBILE	MOBILE		
MOBILE-SATELLITE (space-to-Earth) 5.351A	MOBILE-SATELLITE (space-to-Earth)		
<u>5.388</u> <u>5.389A</u> 5.389F	BHR4		



2 200-2 290 MHz SPACE OPERATION (space- to-Earth) (space-to-space) EARTH EXPLORATION- SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE SPACE RESEARCH (space-	SPACE OPERATION FIXED	Wireless camera Applications.
to-Earth) (space-to-space) EARTH EXPLORATION- SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE SPACE RESEARCH (space-		
SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE SPACE RESEARCH (space-		
MOBILE SPACE RESEARCH (space-		
SPACE RESEARCH (space-		
× 1		
to-Earth) (space-to-space)		
BHR4		
2 290-2 300 MHz	FIXED	Wireless camera Applications.
FIXED	MOBILE	
MOBILE except aeronautical mobile	SPACE RESEARCH	
SPACE RESEARCH (deep space) (space-to-Earth)		
BHR4		
		Maximum power for Amateur bands 2300.000 MHz – 2310.000 MHz and
		2400.000 MHz – 2450.000 MHz are 100W & 25W (e.i.r.p) respectively.
		WiFi band 2 400-2 483.5 MHz
		Amateur in the bands 2300-2310 MHz
<u>BHK4</u>		& 2 400-2 450 MHz only.
		IMT (2300-2400 MHz) Wireless camera Applications.
2 450-2 483.5 MHz		WiFi band 2 400-2 483.5 MHz
FIXED		
MOBILE		
Radiolocation		
BHR4		
2 483.5-2 500 MHz		
FIXED		
MOBILE		
MOBILE-SATELLITE (space-to-Earth)		
RADIODETERMINATION- SATELLITE (space-to-		
, ,		
<u>BHR4</u> 2 500-2 520 MHz	IMT	
mobile		
BHR4		
<b>B</b> 2 F W M B <b>2</b> F W M B <b>2</b> F W M B <b>2</b> F W M R <b>B</b> 2 F W M R <b>R</b> B <b>2</b> F W M R <b>R</b> B <b>1</b> F W M R M R <b>1</b> F W M R M R M R M R M R M R M R M R M R M	Ability of the second and a second a	ABUEL SATELLITE (space-to-space) HIR4 290-2 300 MHz FIXED MOBILE except aeronautical hobile ACE RESEARCH (deep pace) (space-to-Earth) ACE RESEARCH ADOBILE ACE ADOBILE ACE ADOBILE ACE ACE RESEARCH (deep pace) (space-to-Earth) ACE ADIODETERMINATION- SATELLITE (space-to- Earth) ACION

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
2 520-2 655 MHz	2 520-2 655 MHz	IMT	
FIXED <u>5.410</u>	MOBILE except aeronautical		
MOBILE except aeronautical mobile 5.384A	mobile		
BROADCASTING-SATELLITE <u>5.413</u> <u>5.416</u>	BHR4		
<u>5.339</u> 5.412 <u>5.418B</u> <u>5.418C</u>			
2 655-2 670 MHz	2 655-2 670 MHz	IMT	
FIXED <u>5.410</u>	MOBILE except aeronautical mobile		
MOBILE except aeronautical mobile <u>5.384A</u>	BHR4		
BROADCASTING-SATELLITE <u>5.208B</u> <u>5.413</u> <u>5.416</u>	DIIK4		
Earth exploration-satellite (passive)			
Radio astronomy			
Space research (passive)			
<u>5.149</u> 5.412			
2 670-2 690 MHz	2 670-2 690 MHz	IMT	
FIXED <u>5.410</u>	MOBILE except aeronautical mobile		
MOBILE except aeronautical mobile <u>5.384A</u>	BHR4		
Earth exploration-satellite (passive)	DIIK4		
Radio astronomy			
Space research (passive)			
<u>5.149</u> 5.412			
2 690-2 700 MHz	2 690-2 700 MHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.422</u>	FIXED		
	MOBILE except aeronautical mobile		
2 700 2 000 XXX	BHR4		
2 700-2 900 MHz AERONAUTICAL RADIONAVIGATION	2 700-2 900 MHz		Radars & Navigation
<u>5.337</u>	AERONAUTICAL RADIONAVIGATION		
Radiolocation	Radiolocation		
<u>5.423</u> 5.424	BHR4		



<u>*Top*</u> << 3 GHz > <u>*Next*</u>

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
2 900-3 100 MHz	2 900-3 100 MHz		Radars & Navigation
RADIOLOCATION 5.424A	RADIOLOCATION		
RADIONAVIGATION 5.426	RADIONAVIGATION		
<u>5.425</u> <u>5.427</u>	BHR4		
3 100-3 300 MHz	3 100-3 300 MHz		Utilized to be used in Bahrain for Fixed and Mobile on secondary basis
RADIOLOCATION	RADIOLOCATION		and mobile on secondary basis
Earth exploration-satellite (active)	Fixed BHR1		
Space research (active)	Mobile BHR1		
<u>5.149</u> 5.428	Earth exploration-satellite (active)		
	Space research (active)		
	BHR4		
3 300-3 400 MHz	3 300-3 400 MHz		
RADIOLOCATION	FIXED		
<u>5.149</u> <u>5.429</u> <u>5.429A</u> <u>5.429B</u> 5.430	MOBILE		
	BHR4		
3 400-3 600 MHz	3 400-3 600 MHz	IMT	
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile <u>5.430A</u>	MOBILE except aeronautical mobile		
Radiolocation	BHR4		
5.431			
3 600-4 200 MHz	3 600-3 700 MHz	MOBILE	This band is allocated nationally for
FIXED	FIXED		MOBILE in primary basis to be used by IMT applications
FIXED-SATELLITE (space-to-Earth)	MOBILE BHR1		by INT applications
Mobile	BHR4		
	3 700-4 200 MHz	FIXED-	VSAT Downlink
	FIXED	SATELLITE	3700-3850 MHz is allocated
	FIXED-SATELLITE (space- to-Earth)	(space-to-Earth) MOBILE	nationally for MOBILE in primary basis
	MOBILE except aeronautical mobile <u>BHR1</u>		
	BHR4		
4 200-4 400 MHz	4 200-4 400 MHz		
AERONAUTICAL MOBILE (R) <u>5.436</u> AERONAUTICAL RADIONAVIGATION	AERONAUTICAL MOBILE (R)		
<u>5.438</u> 5.437 5.439 <u>5.440</u>	AERONAUTICAL RADIONAVIGATION		
<u></u> 5.107 <u>01110</u>	BHR4		
4 400-4 500 MHz	4 400-4 500 MHz		
FIXED	FIXED		
MOBILE 5.440A	MOBILE		
	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>4 500-4 800 MHz</b> FIXED FIXED-SATELLITE (space-to-Earth) <u>5.441</u> MOBILE 5.440A <b>4 800-4 990 MHz</b> FIXED MOBILE 5.440A 5.441A 5.441B 5.442	4 500-4 800 MHz FIXED FIXED-SATELLITE (space- to-Earth) MOBILE BHR4 4 800-4 990 MHz FIXED MOBILE		
Radio astronomy <u>5.149</u> <u>5.339</u> 5.443	BHR4		
4 990-5 000 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive) 5.149	4 990-5 000 MHz FIXED MOBILE except aeronautical mobile Space research (passive) <u>BHR4</u>	FIXED MOBILE except aeronautical mobile	
<b>5 000-5 010 MHz</b> AERONAUTICAL MOBILE-SATELLITE (R) <u>5.443AA</u> AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth- to-space)	5 000-5 010 MHz AERONAUTICAL MOBILE- SATELLITE (R) AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (Earth-to-space) BHR4		Satellite navigation
5 010-5 030 MHz AERONAUTICAL MOBILE-SATELLITE (R) <u>5.443AA</u> AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space- to-Earth) (space-to-space) <u>5.328B</u> <u>5.443B</u>	5 010-5 030 MHz AERONAUTICAL MOBILE- SATELLITE (R) AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (space-to-Earth) (space-to-space) BHR4		Satellite navigation



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
5 030-5 091 MHz	5 030-5 091 MHz		
AERONAUTICAL MOBILE (R) 5.443C	AERONAUTICAL MOBILE		
AERONAUTICAL MOBILE-SATELLITE	(R)		
(R) <u>5.443D</u>	AERONAUTICAL MOBILE- SATELLITE (R)		
AERONAUTICAL RADIONAVIGATION 5.444	AERONAUTICAL		
<u></u>	RADIONAVIGATION		
	BHR4		
5 091-5 150 MHz	5 091-5 150 MHz		
FIXED-SATELLITE (Earth-to-space) 5.444A	FIXED-SATELLITE (Earth-		
AERONAUTICAL MOBILE <u>5.444B</u>	to-space)		
AERONAUTICAL MOBILE-SATELLITE	AERONAUTICAL MOBILE		
(R) <u>5.443AA</u>	AERONAUTICAL MOBILE-		
AERONAUTICAL RADIONAVIGATION	SATELLITE (R) AERONAUTICAL		
<u>5.444</u>	RADIONAVIGATION		
	BHR4		
5 150-5 250 MHz	5 150-5 250 MHz		Wifi band 5150 - 5350 MHz
FIXED-SATELLITE (Earth-to-space) 5.447A	FIXED-SATELLITE (Earth-		
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.446B</u>	to-space) MOBILE except aeronautical		
AERONAUTICAL RADIONAVIGATION	mobile		
5.446 <u>5.446C</u> 5.446D 5.447 <u>5.447B</u> <u>5.447C</u>	AERONAUTICAL		
	RADIONAVIGATION		
5 250-5 255 MHz	<u>BHR4</u> 5 250-5 255 MHz		Wifi band 5150 – 5350 MHz
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-		Shipborne and VTS radar
(active)	SATELLITE (active)		Weather radar
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.447F</u>	MOBILE except aeronautical mobile		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH 5.447D	SPACE RESEARCH		
5.447E 5.448 <u>5.448A</u>	BHR4		
5 255-5 350 MHz	5 255-5 350 MHz		Wifi band 5150 - 5350 MHz
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Shipborne and VTS radar Weather radar
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.447F</u>	MOBILE except aeronautical mobile		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
5.447E 5.448 <u>5.448A</u>	BHR4		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
5 350-5 460 MHz	5 350-5 460 MHz		Shipborne and VTS radar
EARTH EXPLORATION-SATELLITE (active) <u>5.448B</u>	EARTH EXPLORATION- SATELLITE (active)		Weather radar
RADIOLOCATION <u>5.448D</u>	RADIOLOCATION		
AERONAUTICAL RADIONAVIGATION 5.449	AERONAUTICAL RADIONAVIGATION		
SPACE RESEARCH (active) 5.448C	SPACE RESEARCH (active)		
	BHR4		
5 460-5 470 MHz	5 460-5 470 MHz		Shipborne and VTS radar
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Weather radar
RADIOLOCATION <u>5.448D</u>	RADIOLOCATION		
RADIONAVIGATION 5.449	RADIONAVIGATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.448B</u>	BHR4		
5 470-5 570 MHz	5 470-5 570 MHz		Private RLANS 5470 - 5725 MHz
EARTH EXPLORATION-SATELLITE (active)	MOBILE except aeronautical mobile		
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.450A</u>	BHR4		
RADIOLOCATION <u>5.450B</u>			
MARITIME RADIONAVIGATION			
SPACE RESEARCH (active)			
<u>5.448B</u> 5.450 5.451			
5 570-5 650 MHz	5 570-5 650 MHz		Private RLANS 5470 - 5725 MHz
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.450A</u>	MOBILE except aeronautical mobile		Shipborne and VTS radar Weather radar
RADIOLOCATION <u>5.450B</u>	RADIOLOCATION		
MARITIME RADIONAVIGATION	BHR4		
5.450 5.451 <u>5.452</u>			
5 650-5 725 MHz	5 650-5 725 MHz		Private RLANS 5470 - 5725 MHz
MOBILE except aeronautical mobile <u>5.446A</u> <u>5.450A</u>	FIXED MOBILE		Maximum power for Amateur is 100W (e.i.r.p).
RADIOLOCATION	Amateur BHR2		
Amateur	BHR4		
Space research (deep space)	DIIK4		
<u>5.282</u> 5.451 <u>5.453</u> 5.454 5.455			
5 725-5 830 MHz	5 725-5 830 MHz		Wifi band 5725 – 5875 MHz
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		BFWA
RADIOLOCATION	to-space) FIXED		Maximum power for Amateur is 100W (e.i.r.p).
Amateur	MOBILE		
<u>5.150</u> 5.451 <u>5.453</u> 5.455	Amateur BHR2		
	BHR4		
	DIIK4		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
5 830-5 850 MHz	5 830-5 850 MHz		Wifi band 5725 – 5875 MHz
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		BFWA
RADIOLOCATION	to-space)		Maximum power for Amateur is 100W
Amateur	RADIOLOCATION		(e.i.r.p).
Amateur-satellite (space-to-Earth)	FIXED MOBILE		
<u>5.150</u> 5.451 <u>5.453</u> 5.455			
	Amateur <u>BHR2</u>		
	Amateur-satellite (space-to- Earth)		
	BHR4		W/C1 15705 5075 MU
5 850-5 925 MHz	5 850-5 925 MHz		Wifi band 5725 – 5875 MHz
FIXED	FIXED		BFWA
FIXED-SATELLITE (Earth-to-space) MOBILE	FIXED-SATELLITE (Earth- to-space)		
5.150	MOBILE		
	BHR4		
5 925-6 700 MHz	5 925-6 700 MHz		In accordance with Resolution 902 (WRC-03)
FIXED 5.457	FIXED <u>BHR3</u>		VSAT Uplink
FIXED-SATELLITE (Earth-to-space) <u>5.457A</u> <u>5.457B</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE 5.457C	MOBILE		
<u>5.149</u> <u>5.440</u> <u>5.458</u>	BHR4		
6 700-7 075 MHz	6 700-7 075 MHz		
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) (space-to-Earth) <u>5.441</u>	FIXED-SATELLITE (Earth- to-space) (space-to-Earth)		
MOBILE	MOBILE		
<u>5.458</u> <u>5.458A</u> <u>5.458B</u>	BHR4		
7 075-7 145 MHz	7 075-7 145 MHz		
FIXED	FIXED <u>BHR3</u>		
MOBILE	MOBILE		
<u>5.458</u> 5.459	BHR4		
7 145-7 190 MHz	7 145-7 190 MHz		
FIXED	FIXED BHR3		
MOBILE	MOBILE		
SPACE RESEARCH (deep space) (Earth-to-space)	SPACE RESEARCH (deep space) (Earth-to-space)		
<u>5.458</u> 5.459	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
7 190 -7 235 MHz	7 190 -7 235 MHz		
EARTH EXPLORATION-SATELLITE (Earth-to-space) <u>5.460A</u> 5.460B	EARTH EXPLORATION- SATELLITE (Earth-to-space)		
FIXED	FIXED BHR3		
MOBILE	MOBILE		
SPACE RESEARCH (Earth-to-space) <u>5.460</u> <u>5.458</u> 5.459	SPACE RESEARCH (Earth- to-space)		
	BHR4		
7 235-7 250 MHz	7 235-7 250 MHz		
EARTH EXPLORATION-SATELLITE (Earth-to-space) <u>5.460A</u>	EARTH EXPLORATION- SATELLITE (Earth-to-space)		
FIXED	FIXED <u>BHR3</u>		
MOBILE	MOBILE		
<u>5.458</u>	BHR4		
7 250-7 300 MHz	7 250-7 300 MHz		
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) MOBILE	FIXED-SATELLITE (space- to-Earth)		
<u>5.461</u>	MOBILE		
	MOBILE-SATELLITE (space- to-Earth)		
	BHR4		
7 300-7 375 MHz	7 300-7 375 MHz		VSAT Downlink
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED-SATELLITE (space- to-Earth)		
<u>5.461</u>	MOBILE except aeronautical mobile		
	BHR4		
7 375-7 450 MHz	7 375-7 450 MHz		VSAT Downlink
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space- to-Earth)		
MOBILE except aeronautical mobile MARITIME MOBILE-SATELLITE (space-	MOBILE except aeronautical		
to-Earth) <u>5.461AA</u> <u>5.461AB</u>	mobile		
	MARITIME MOBILE- SATELLITE (space-to-Earth)		
	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
7 450-7 550 MHz	7 450-7 550 MHz		VSAT Downlink
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space- to-Earth)		
METEOROLOGICAL-SATELLITE (space- to-Earth)	METEOROLOGICAL-		
MOBILE except aeronautical mobile	SATELLITE (space-to-Earth)		
MARITIME MOBILE-SATELLITE (space- to-Earth) <u>5.461AA</u> <u>5.461AB</u>	MOBILE except aeronautical mobile		
<u>5.461A</u>	MARITIME MOBILE- SATELLITE (space-to-Earth)		
	BHR4		
7 550-7 750 MHz	7 550-7 750 MHz		VSAT Downlink
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED-SATELLITE (space- to-Earth)		
MARITIME MOBILE-SATELLITE (space-	MOBILE except aeronautical mobile		
to-Earth) <u>5.461AA</u> <u>5.461AB</u>	MARITIME MOBILE- SATELLITE (space-to-Earth)		
	BHR4		
7 750-7 900 MHz	7 750-7 900 MHz		
FIXED	FIXED <u>BHR3</u>		
METEOROLOGICAL-SATELLITE (space- to-Earth) <u>5.461B</u>	METEOROLOGICAL- SATELLITE (space-to-Earth)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
7 900-8 025 MHz	7 900-8 025 MHz		VSAT Uplink
FIXED	FIXED BHR3		
FIXED-SATELLITE (Earth-to-space) MOBILE	FIXED-SATELLITE (Earth- to-space)		
	MOBILE		
<u>5.461</u>	MOBILE-SATELLITE (Earth-to- space)		
	BHR4		
8 025-8 175 MHz	8 025-8 175 MHz		VSAT Uplink
EARTH EXPLORATION-SATELLITE (space-to-Earth)	EARTH EXPLORATION- SATELLITE (space-to-Earth)		
FIXED	FIXED BHR3		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth- to-space)		
MOBILE <u>5.463</u>	MOBILE		
<u>5.462A</u>	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
8 175-8 215 MHz	8 175-8 215 MHz		VSAT Uplink
EARTH EXPLORATION-SATELLITE (space-to-Earth)	EARTH EXPLORATION- SATELLITE (space-to-Earth)		
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		
METEOROLOGICAL-SATELLITE (Earth- to-space)	to-space) METEOROLOGICAL-		
MOBILE <u>5.463</u>	SATELLITE (Earth-to-space)		
<u>5.462A</u>	MOBILE		
0.015.0.400.XM	BHR4		
8 215-8 400 MHz	8 215-8 400 MHz		VSAT Uplink / Downlink
EARTH EXPLORATION-SATELLITE (space-to-Earth)	EARTH EXPLORATION- SATELLITE (space-to-Earth)		
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) MOBILE 5.463	FIXED-SATELLITE (Earth- to-space)		
5.462A	MOBILE		
<u>3.402A</u>	BHR4		
8 400-8 500 MHz	8 400-8 500 MHz	FIXED	Uni-directional only
FIXED	FIXED BHR3	MOBILE except	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	aeronautical mobile	
SPACE RESEARCH (space-to-Earth) <u>5.465</u> 5.466	SPACE RESEARCH (space- to-Earth)		
	BHR4		
8 500-8 550 MHz	8 500-8 550 MHz		
RADIOLOCATION	RADIOLOCATION		
<u>5.468</u> 5.469	FIXED		
	MOBILE		
	BHR4		
8 550-8 650 MHz	8 550-8 650 MHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.468</u> 5.469 <u>5.469A</u>	FIXED		
	MOBILE		
	BHR4		
	DIIR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
8 650-8 750 MHz	8 650-8 750 MHz		
RADIOLOCATION	RADIOLOCATION		
<u>5.468</u> 5.469	FIXED		
	MOBILE		
	BHR4		
8 750-8 850 MHz	8 750-8 825 MHz		Aeronautical Radionavigation service is limited to airborne doppler
RADIOLOCATION	RADIOLOCATION		navigation aids on a centre frequency
AERONAUTICAL RADIONAVIGATION 5.470	AERONAUTICAL RADIONAVIGATION		of 8 800 MHz
<u>5.471</u>	BHR4		
	8 825-8 850 MHz		Maritime Radionavigation is limited to for Shore based radars 8 825-8 850
	MARITIME RADIONAVIGATION		MHz
	BHR4		
8 850-9 000 MHz	8 850-9 000 MHz		
RADIOLOCATION	RADIOLOCATION		
MARITIME RADIONAVIGATION <u>5.472</u> 5.473	MARITIME RADIONAVIGATION		
	BHR4		
9 000-9 200 MHz	9 000-9 200 MHz		Maritime Radionavigation is limited to for Shore based radars 9 000-9 200
RADIOLOCATION	RADIOLOCATION		MHz
AERONAUTICAL RADIONAVIGATION 5.337	AERONAUTICAL RADIONAVIGATION		Aeronautical radionavigation
<u>5.471</u> <u>5.473A</u>	MARITIME RADIONAVIGATION		
	BHR4		
9 200-9 300 MHz	9 200-9 300 MHz		Earth exploration-satellite service should be in accordance with the
EARTH EXPLORATION-SATELLITE (active) <u>5.474A</u> <u>5.474B</u> <u>5.474C</u>	EARTH EXPLORATION- SATELLITE (active)		conditions mentioned in 5.474A Shipborne radar
RADIOLOCATION	RADIOLOCATION		9 200-9 500 MHz search and rescue
MARITIME RADIONAVIGATION 5.472	MARITIME		transponders (SART) may be used
5.473 <u>5.474</u> <u>5.474D</u>	RADIONAVIGATION		
	BHR4		
9 300-9 500 MHz	9 300-9 500 MHz		Shipborne radar
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Radionavigation 9 200-9 500 MHz search and rescue
RADIOLOCATION	RADIOLOCATION		transponders (SART) may be used
RADIONAVIGATION 5.475	RADIONAVIGATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.427 5.474 5.475A 5.475B 5.476A</u>	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
9 500-9 800 MHz	9 500-9 800 MHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION	RADIONAVIGATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.476A</u>	BHR4		
9 800-9 900 MHz	9 800-9 900 MHz		
RADIOLOCATION	RADIOLOCATION		
Earth exploration-satellite (active)	FIXED		
Fixed	Earth exploration-satellite (active)		
Space research (active)	Space research (active)		
<u>5.477</u> 5.478 <u>5.478A</u> <u>5.478B</u>	BHR4		
9 900-10 000 MHz	9 900-10 000 MHz		Earth exploration-satellite service
EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C	EARTH EXPLORATION- SATELLITE (active)		should be in accordance with the conditions mentioned in 5.474A
RADIOLOCATION	RADIOLOCATION		
Fixed	FIXED		
<u>5.477</u> 5.478 <u>5.479</u> <u>5.474D</u>	BHR4		
10-10.4 GHz	10-10.4 GHz	FIXED	Earth exploration-satellite service
EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C	EARTH EXPLORATION- SATELLITE (active)		should be in accordance with the conditions mentioned in 5.474A
FIXED	FIXED		Maximum power for Amateur is 100W
MOBILE	MOBILE		(e.i.r.p).
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
<u>5.479 5.474D</u>	BHR4		
10.4-10.45 GHz	10.4-10.45 GHz	FIXED	Maximum power for Amateur is 100W
FIXED	FIXED		(e.i.r.p).
MOBILE	MOBILE		
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
	BHR4		
10.45-10.5 GHz	10.45-10.5 GHz		Maximum power for Amateur is 100W
RADIOLOCATION	RADIOLOCATION		(e.i.r.p).
Amateur	Amateur BHR2		
Amateur-satellite	Amateur-satellite		
5.481	BHR4		
10.5-10.55 GHz	10.5-10.55 GHz	FIXED	
FIXED	FIXED		
MOBILE	MOBILE		
Radiolocation	BHR4		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
10.55-10.6 GHz	10.55-10.6 GHz	FIXED	
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
Radiolocation	mobile		
10.6-10.68 GHz	BHR4 10.6-10.68 GHz	FIXED	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	TIALD	
FIXED	FIXED		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
RADIO ASTRONOMY	mobile		
SPACE RESEARCH (passive)	BHR4		
Radiolocation			
<u>5.149</u> <u>5.482</u> <u>5.482A</u>			
10.68-10.7 GHz	10.68-10.7 GHz	Passive Band	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.483</u>	FIXED		
	MOBILE except aeronautical mobile		
	BHR4		
10.7-10.95 GHz	10.7-10.95 GHz	FIXED	
FIXED FIXED-SATELLITE (space-to-Earth) <u>5.441</u>	FIXED <u>BHR3</u> FIXED-SATELLITE (space-		
(Earth-to-space) <u>5.484</u>	to-Earth) (Earth-to-space)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
10.95-11.2 GHz	10.95-11.2 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.484B</u> (Earth-to-space) <u>5.484</u>	FIXED-SATELLITE (space- to-Earth) (Earth-to-space)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
11.2-11.45 GHz	11.2-11.45 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth) <u>5.441</u> (Earth-to-space) <u>5.484</u>	FIXED-SATELLITE (space- to-Earth) (Earth-to-space)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
11.45-11.7 GHz	11.45-11.7 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.484B</u> (Earth-to-space) <u>5.484</u>	FIXED-SATELLITE (space- to-Earth) (Earth-to-space)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
	BHR4		
11.7-12.5 GHz	11.7-12.5 GHz	BROADCASTING- SATELLITE	For Broadcasting-Satellite refer to the Appendix 30 and Radio Regulations
FIXED	FIXED	SATELETTE	Res. 73
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE <u>5.492</u>	BROADCASTING-		
<u>5.487</u> <u>5.487A</u>	SATELLITE		
	BHR4		
12.5-12.75 GHz	12.5-12.75 GHz		VSAT Downlink/Uplink
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.484B</u> (Earth-to-space)	FIXED-SATELLITE (space- to-Earth) (Earth-to-space)		
<u>5.494</u> 5.495 5.496	FIXED		
	MOBILE except aeronautical mobile		
12.75-13.25 GHz	12.75-13.25 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) <u>5.441</u> MOBILE	FIXED-SATELLITE (Earth- to-space)		
Space research (deep space) (space-to-Earth)	MOBILE		
	Space research (deep space) (space-to-Earth)		
13.25-13.4 GHz	13.25-13.4 GHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
AERONAUTICAL RADIONAVIGATION 5.497	AERONAUTICAL RADIONAVIGATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.498A</u> 5.499			



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
13.4-13.65 GHz	13.4-13.65 GHz		Refer to the ITU Radio Regulation
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		Article 26 for SFTS
FIXED-SATELLITE (space-to-Earth) <u>5.499A</u> <u>5.499B</u>	FIXED-SATELLITE (space-t-Earth)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH 5.499C 5.499D	SPACE RESEARCH		
Standard frequency and time signal-satellite (Earth-to-space)	FIXED MOBILE		
<u>5.499E</u> <u>5.500</u> 5.501 <u>5.501B</u>	Standard frequency and time signal-satellite (Earth-to-space)		
	BHR4		
13.65-13.75 GHz	13.65-13.75 GHz		Refer to the ITU Radio Regulation Article 26 for SFTS
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH 5.501A	SPACE RESEARCH		
Standard frequency and time signal-satellite	FIXED		
(Earth-to-space)	MOBILE		
5.499 <u>5.500</u> 5.501 <u>5.501B</u>	Standard frequency and time signal-satellite (Earth-to-space)		
	BHR4		
13.75-14GHz	13.75-14GHz	FIXED- SATELLITE	Refer to the ITU Radio Regulation Article 26 for SFTS
FIXED-SATELLITE (Earth-to-space) <u>5.484A</u> RADIOLOCATION	FIXED-SATELLITE (Earth- to-space)	(Earth-to-space)	VSAT Uplink
Earth exploration-satellite	FIXED		
Standard frequency and time signal-satellite	MOBILE		
(Earth-to-space)	Earth exploration-satellite		
Space research	Standard frequency and time signal-satellite (Earth-to-space)		
5.499 <u>5.500</u> 5.501 <u>5.502</u> <u>5.503</u>	Space research		
	BHR4		
14-14.25 GHz	14-14.25 GHz	FIXED-	In accordance with Resolution 902
FIXED-SATELLITE (Earth-to-space) <u>5.457A</u> <u>5.457B</u> <u>5.484A</u> <u>5.484B</u> <u>5.506</u> <u>5.506B</u>	FIXED-SATELLITE (Earth- to-space)	SATELLITE (Earth-to-space)	(WRC-03) VSAT Uplink
RADIONAVIGATION 5.504	RADIONAVIGATION		
Mobile-satellite (Earth-to-space) <u>5.504B</u>	FIXED		
<u>5.504C</u> <u>5.506A</u> Space research	Mobile-satellite (Earth-to- space)		
<u>5.504A 5.505</u>	Space research		
<u>BUTT</u> BRUE	Space research		

<b>RR Region 1</b> Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
14.25-14.3 GHz	14.25-14.3 GHz	FIXED-	In accordance with Resolution 902 (WRC-03) VSAT Uplink
FIXED-SATELLITE (Earth-to-space) 5.457A	FIXED-SATELLITE (Earth-	SATELLITE (Earth-to-space)	
<u>5.457B 5.484A 5.484B 5.506 5.506B</u>	to-space)	()	
RADIONAVIGATION <u>5.504</u>	FIXED		
Mobile-satellite (Earth-to-space) 5.504B	Mobile-satellite (Earth-to-		
<u>5.506A</u> <u>5.508A</u>	space)		
Space research	Space research		
<u>5.504A</u> <u>5.505</u> 5.508			
14.3-14.4 GHz	14.3-14.4 GHz	FIXED-	In accordance with Resolution 902
FIXED	FIXED	SATELLITE (Earth-to-space)	(WRC-03)
FIXED-SATELLITE (Earth-to-space) <u>5.457A</u> <u>5.457B</u> <u>5.484A</u> <u>5.484B</u> <u>5.506</u> <u>5.506B</u>	FIXED-SATELLITE (Earth- to-space)	(Latur-to-space)	VSAT Uplink
MOBILE except aeronautical mobile	MOBILE except aeronautical		
Mobile-satellite (Earth-to-space) <u>5.504B</u> <u>5.506A</u> <u>5.509A</u>	mobile Mobile-satellite (Earth-to-		
Radionavigation-satellite	space)		
<u>5.504A</u>	Radionavigation-satellite		
14.4-14.47 GHz	14.4-14.47 GHz	FIXED	In accordance with Resolution 902 (WRC-03)
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) <u>5.457A</u>	FIXED-SATELLITE (Earth- to-space)		
<u>5.457B 5.484A 5.484B 5.506 5.506B</u>	MOBILE except aeronautical		
MOBILE except aeronautical mobile	mobile		
Mobile-satellite (Earth-to-space) <u>5.504B</u>	Mobile-satellite (Earth-to-		
<u>5.506A</u> <u>5.509A</u>	space)		
Space research (space-to-Earth)	Space research (space-to- Earth)		
5.504A	,		
14.47-14.5 GHz	14.47-14.5 GHz	FIXED	In accordance with Resolution 902 (WRC-03)
FIXED	FIXED <u>BHR3</u>		(
FIXED-SATELLITE (Earth-to-space) <u>5.457A</u> <u>5.457B</u> <u>5.484A</u> <u>5.506</u> <u>5.506B</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
Mobile-satellite (Earth-to-space) <u>5.504B</u> 5.506A <u>5.509A</u>	Mobile-satellite (Earth-to-		
Radio astronomy	space)		
5.149 5.504A			
14.5-14.75 GHz	14.5-14.75 GHz	FIXED	
FIXED FIXED-SATELLITE (Earth-to-space) <u>5.509B</u>	FIXED <u>BHR3</u> FIXED-SATELLITE (Earth-		
<u>5.509C 5.509D 5.509E 5.509F 5.510</u>	to-space)		
MOBILE	MOBILE		



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RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
17.1-17.2 GHz	17.1-17.2 GHz		
RADIOLOCATION	RADIOLOCATION		
<u>5.512</u> 5.513	FIXED		
	MOBILE		
	BHR4		
17.2-17.3 GHz	17.2-17.3 GHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.512</u> 5.513 <u>5.513A</u>	BHR4		
17.3-17.7 GHz	17.3-17.7 GHz		
FIXED-SATELLITE (Earth-to-space) <u>5.516</u> (space-to-Earth) <u>5.516A</u> <u>5.516B</u>	FIXED-SATELLITE (Earth- to-space) (space-to-Earth)		
Radiolocation	Radiolocation		
<u>5.514</u>	Fixed		
	Mobile		
17.7-18.1 GHz	17.7-18.1 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.517A</u> (Earth-to-space) <u>5.516</u>	FIXED-SATELLITE (space- to-Earth)		
MOBILE	(Earth-to-space) MOBILE		
18.1-18.4 GHz	18.1-18.4 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth) 5.484A	FIXED-SATELLITE (space-		
5.516B 5.517A (Earth-to-space) 5.520	to-Earth) (Earth-to-space)		
MOBILE	MOBILE		
<u>5.519</u> <u>5.521</u>			
18.4-18.6 GHz	18.4-18.6 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.516B</u> <u>5.517A</u>	FIXED-SATELLITE (space-to-Earth)		
MOBILE	MOBILE		
18.6-18.8 GHz	18.6-18.8 GHz	FIXED	The carrier power to the input of antenna shall not exceed –3dBW for
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		Fixed point to point link
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) <u>5.517A</u> <u>5.522B</u>	FIXED-SATELLITE (space- to-Earth)		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
Space research (passive) <u>5.522A</u> <u>5.522C</u>	Space research (passive)		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
18.8-19.3 GHz	18.8-19.3 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth) <u>5.516.B</u> <u>5.517A</u> <u>5.523A</u>	FIXED-SATELLITE (space-to-Earth)		
MOBILE	MOBILE		
19.3-19.7 GHz	19.3-19.7 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-		
(Earth-to-space) <u>5.517A</u> <u>5.523B</u> <u>5.523C</u> 5.523D 5.523E	to-Earth)		
MOBILE	(Earth-to-space)		
	MOBILE		
19.7-20.1 GHz	19.7-20.1 GHz		VSAT downlink
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.484B</u> <u>5.516B</u> <u>5.527A</u>	FIXED-SATELLITE (space- to-Earth)		
Mobile-satellite (space-to-Earth)	FIXED		
<u>5.524</u>	MOBILE		
	Mobile-satellite (space-to- Earth)		
20.1-20.2 GHz	20.1-20.2 GHz		VSAT downlink
FIXED-SATELLITE (space-to-Earth) <u>5.484A</u> <u>5.484B</u> <u>5.516B</u> <u>5.527A</u>	FIXED-SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-		
<u>5.524 5.525 5.526 5.527 5.528</u>	to-Earth)		
	FIXED MOBILE		
20.2-21.2 GHz	20.2-21.2 GHz		Refer to the ITU Radio Regulation
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space- to-Earth)		Article 26 for SFTS VSAT Downlink
MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite	MOBILE-SATELLITE (space- to-Earth)		
(space-to-Earth)	FIXED		
<u>5.524</u>	MOBILE		
	Standard frequency and time		
	signal-satellite (space-to-Earth)		
21.2-21.4 GHz	21.2-21.4 GHz	FIXED	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED <u>BHR3</u>		
MOBILE	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
21.4-22 GHz	21.4-22 GHz	FIXED	For Broadcasting-Satellite refer to the
FIXED	FIXED BHR3		Radio Regulations Res. 552, 553, 554 and 555
MOBILE	MOBILE		
BROADCASTING-SATELLITE <u>5.208B</u>	BROADCASTING- SATELLITE		Stations shall not exceed a power flux- density of -120.4 dB (W/(m2 · MHz)) at 3 m above the ground of any point of
<u>5.530A</u> <u>5.530B</u>			the territory of neighbouring countries for more than 20% of the time for Fixed point to point link
22-22.21 GHz	22-22.21 GHz	FIXED	Paired with 23 – 23.6 GHz for Fixed
FIXED	FIXED <u>BHR3</u>		
MOBILE except aeronautical mobile	MOBILE except aeronautical		
<u>5.149</u>	mobile		
22.21-22.5 GHz	22.21-22.5 GHz	FIXED	Paired with 23 – 23.6 GHz for Fixed
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED <u>BHR3</u>		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)			
<u>5.149</u> <u>5.532</u>	SPACE RESEARCH (passive)	DUED	
22.5-22.55 GHz	22.5-22.55 GHz	FIXED	Paired with 23 – 23.6 GHz for Fixed
FIXED	FIXED <u>BHR3</u>		
MOBILE	MOBILE		
22.55-23.15 GHz	22.55-23.15 GHz	FIXED	22 – 22.6 GHz Paired with 23 – 23.6 GHz for Fixed
FIXED	FIXED <u>BHR3</u>		
INTER-SATELLITE <u>5.338A</u>	INTER-SATELLITE		
MOBILE	MOBILE		23 – 23.6 GHz Paired with 22 – 22.6
SPACE RESEARCH (Earth-to-space) <u>5.532A</u>	SPACE RESEARCH (Earth-		GHz for Fixed
<u>5.149</u> 23.15-23.55 GHz	to-space)	ENVED	D. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	23.15-23.55 GHz	FIXED	Paired with 22 – 22.6 GHz for Fixed
FIXED	FIXED <u>BHR3</u>		
INTER-SATELLITE <u>5.338A</u>	INTER-SATELLITE		
MOBILE	MOBILE		
23.55-23.6 GHz	23.55-23.6 GHz	FIXED	Paired with 22 – 22.6 GHz for Fixed
FIXED	FIXED BHR3		
MOBILE	MOBILE		
23.6-24 GHz	23.6-24 GHz		Passive Band
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340			



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
24-24.05 GHz	24-24.05 GHz		Maximum power for Amateur is 50W
AMATEUR	AMATEUR BHR2		(e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
<u>5.150</u>	BHR4		
24.05-24.25 GHz	24.05-24.25 GHz		Maximum power for Amateur is 50W (e.i.r.p).
RADIOLOCATION	RADIOLOCATION		(e.n.p).
Amateur	Amateur BHR2		
Earth exploration-satellite (active) 5.150	Earth exploration-satellite (active)		
	BHR4	D.CT	
24.25-24.45 GHz	24.25-24.45 GHz	IMT	
FIXED	FIXED		
MOBILE except aeronautical mobile <u>5.338A</u>	MOBILE except aeronautical mobile		
<u>5.532AB</u>	BHR4		
24.45-24.65 GHz	24.45-24.65 GHz	FIXED	
FIXED	FIXED BHR3	IMT	
INTER-SATELLITE	INTER-SATELLITE		
MOBILE except aeronautical mobile 5.338A	MOBILE except aeronautical		
5.532AB	mobile		
<u></u>	BHR4		
24.65-24.75 GHz	24.65-24.75 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>	IMT	
FIXED-SATELLITE (Earth-to-space) 5.532B	FIXED-SATELLITE (Earth-		
INTER-SATELLITE	to-space)		
MOBILE except aeronautical mobile 5.338A	INTER-SATELLITE		
<u>5.532AB</u>	MOBILE except aeronautical mobile		
	BHR4		
		ENVED	
24.75-25.25 GHz	24.75-25.25 GHz	FIXED	
FIXED	FIXED BHR3	IMT	
FIXED-SATELLITE (Earth-to-space) <u>5.532B</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE except aeronautical mobile <u>5.338A</u>	MOBILE except aeronautical		
<u>5.532AB</u>	mobile		
	BHR4		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
25.25-25.5 GHz	25.25-25.5 GHz	FIXED	Refer to the ITU Radio Regulation
FIXED <u>5.534A</u>	FIXED BHR3	IMT	Article 26 for SFTS
INTER-SATELLITE 5.536	INTER-SATELLITE		
MOBILE <u>5.338A 5.532AB</u>	MOBILE		
Standard frequency and time signal-satellite (Earth-to-space)	Standard frequency and time signal-satellite (Earth-to-space) BHR4		
25.5-27 GHz	25.5-27 GHz	FIXED	Refer to the ITU Radio Regulation
EARTH EXPLORATION-SATELLITE	EARTH EXPLORATION-	IMT	Article 26 for SFTS
(space-to Earth) <u>5.536B</u>	SATELLITE		
FIXED <u>5.534A</u>	(space-to Earth)		
INTER-SATELLITE 5.536	FIXED BHR3		
MOBILE <u>5.338A</u> 5.532AB	INTER-SATELLITE		
SPACE RESEARCH (space-to-Earth)	MOBILE		
<u>5.536C</u> Standard frequency and time signal-satellite	SPACE RESEARCH (space- to-Earth)		
(Earth-to-space)	Standard frequency and time		
<u>5.536A</u>	signal-satellite (Earth-to-space)		
	BHR4		
27-27.5 GHz	27-27.5 GHz	IMT	
FIXED	FIXED		
INTER-SATELLITE 5.536	INTER-SATELLITE		
MOBILE <u>5.338A 5.532AB</u>	MOBILE		
27.5-28.5 GHz	27.5-28.5 GHz	FIXED	Point to Multipoint
FIXED 5.537A	FIXED		
FIXED-SATELLITE (Earth-to-space) <u>5.484A</u> <u>5.516B</u> <u>5.517A</u> <u>5.539</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE	MOBILE		
<u>5.538 5.540</u>			
28.5-29.1 GHz	28.5-29.1 GHz	FIXED	Point to Multipoint
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) <u>5.484A</u> <u>5.516B</u> <u>5.517A</u> <u>5.523A</u> <u>5.539</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE	MOBILE		
Earth exploration-satellite (Earth-to-space) <u>5.541</u>	Earth exploration-satellite (Earth-to-space)		
<u>5.540</u>			
29.1-29.5 GHz	29.1-29.5 GHz	FIXED	Point to Multipoint



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RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		
<u>5.516B</u> <u>5.517A</u> <u>5.523C</u> <u>5.523E</u> <u>5.535A</u> 5.539 5.541A	to-space)		
MOBILE	MOBILE		
Earth exploration-satellite (Earth-to-space) 5.541	Earth exploration-satellite (Earth-to-space)		
<u>5.540</u>			
29.5-29.9 GHz	29.5-29.9 GHz		VSAT uplink
FIXED-SATELLITE (Earth-to-space) <u>5.484A</u> <u>5.484B</u> <u>5.516B</u> <u>5.539</u> <u>5.527A</u>	FIXED-SATELLITE (Earth- to-space)		
Earth exploration-satellite (Earth-to-space) <u>5.541</u>	Earth exploration-satellite (Earth-to-space)		
Mobile-satellite (Earth-to-space)	Mobile-satellite (Earth-to- space)		
<u>5.540</u> <u>5.542</u>	Fixed		
29.9-30 GHz	Mobile 29.9-30 GHz		VSAT uplink
FIXED-SATELLITE (Earth-to-space) <u>5.484A</u> 5.484 <u>B</u> 5.516 <u>B</u> 5.539 5.527 <u>A</u>			
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-		
Earth exploration-satellite (Earth-to-space)	to-space)		
<u>5.541</u> <u>5.543</u>	Earth exploration-satellite		
<u>5.525 5.526 5.527 5.538 5.540 5.542</u>	(Earth-to-space)		
	Fixed		
	Mobile		

<u>Top</u> << 30 GHz > <u>Next</u>

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
30-31 GHz	30-31 GHz		Refer to the ITU Radio Regulation
FIXED-SATELLITE (Earth-to-space) 5.338A	FIXED-SATELLITE (Earth-		Article 26 for SFTS VSAT uplink
MOBILE-SATELLITE (Earth-to-space)	to-space)		vorti upink
Standard frequency and time signal-satellite (space-to-Earth)	MOBILE-SATELLITE (Earth- to-space)		
<u>5.542</u>	Standard frequency and time signal-satellite (space-to-Earth)		
	Fixed		
	Mobile	FWED	
31-31.3 GHz	31-31.3 GHz	FIXED	Refer to the ITU Radio Regulation Article 26 for SFTS
FIXED <u>5.338A</u> <u>5.543B</u>	FIXED <u>BHR3</u>		HAPS identification does not preclude
MOBILE	MOBILE		the use of this frequency band by other
Standard frequency and time signal-satellite (space-to-Earth)	Standard frequency and time signal-satellite (space-to-Earth)		fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis and
Space research <u>5.544</u> 5.545	Space research		does not establish priority in the Radio Regulations. Such use of the fixed-
<u>5.149</u>			service allocation by HAPS shall be in accordance with the provisions of Resolution 167 (WRC-19)
31.3-31.5 GHz	31.3-31.5 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340			
31.5-31.8 GHz	31.5-31.8 GHz	FIXED	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
Fixed	FIXED BHR3		
Mobile except aeronautical mobile	MOBILE except aeronautical		
<u>5.149</u> <u>5.546</u>	mobile		
31.8-32 GHz	31.8-32 GHz	FIXED	
FIXED <u>5.547A</u>	FIXED BHR3		
RADIONAVIGATION	SPACE RESEARCH (deep		
SPACE RESEARCH (deep space) (space-to- Earth)	space) (space-to-Earth)		
<u>5.547</u> 5.547B <u>5.548</u>			



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
32-32.3 GHz	32-32.3 GHz	FIXED	
FIXED <u>5.547A</u>	FIXED BHR3		
RADIONAVIGATION			
SPACE RESEARCH (deep space) (space-to- Earth)	SPACE RESEARCH (deep space) (space-to-Earth)		
<u>5.547</u> 5.547C <u>5.548</u>			
32.3-33 GHz	32.3-33 GHz	FIXED	
FIXED <u>5.547A</u>	FIXED BHR3		
INTER-SATELLITE	INTER-SATELLITE		
RADIONAVIGATION			
<u>5.547</u> 5.547D <u>5.548</u>			
33-33.4 GHz	33-33.4 GHz	FIXED	
FIXED <u>5.547A</u>	FIXED <u>BHR3</u>		
RADIONAVIGATION			
<u>5.547</u> 5.547E			
33.4-34.2 GHz	33.4-34.2 GHz		
RADIOLOCATION	RADIOLOCATION		
<u>5.549</u>	FIXED		
	MOBILE		
34.2-34.7 GHz	34.2-34.7 GHz		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (deep space) (Earth-to-space)	SPACE RESEARCH (deep space) (Earth-to-space)		
<u>5.549</u>	FIXED MOBILE		
34.7-35.2 GHz	34.7-35.2 GHz		
RADIOLOCATION	RADIOLOCATION		
Space research 5.550	FIXED		
5.549	MOBILE		
	Space research		
35.2-35.5 GHz	35.2-35.5 GHz		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
RADIOLOCATION	RADIOLOCATION		
<u>5.549</u>	FIXED		
	MOBILE		

RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
35.5-36 GHz	35.5-36 GHz		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
<u>5.549</u> <u>5.549A</u>	FIXED		
	MOBILE		
36-37 GHz	36-37 GHz	FIXED	The maximum elevation angle is 20 degrees, the maximum transmitter power at the input of antenna is -10 dBW or -7 dBW if ATPC is used for Fixed point to point link
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED <u>BHR3</u>		
MOBILE	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.149</u> <u>5.550A</u>			
37-37.5 GHz	37-37.5 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>	IMT	
MOBILE except aeronautical mobile <u>5.550B</u> SPACE RESEARCH (space-to-Earth)	MOBILE except aeronautical mobile		
<u>5.547</u>	SPACE RESEARCH (space- to-Earth)		
37.5-38 GHz	37.5-38 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>	IMT	
FIXED-SATELLITE (space-to-Earth) <u>5.550C</u> MOBILE except aeronautical mobile <u>5.550B</u>	FIXED-SATELLITE (space-to-Earth)		
SPACE RESEARCH (space-to-Earth)	MOBILE except aeronautical mobile		
Earth exploration-satellite (space-to-Earth) <i>5.547</i>	SPACE RESEARCH (space- to-Earth)		
<u>5.547</u>	Earth exploration-satellite		
38-39.5 GHz	(space-to-Earth) 38-39.5 GHz	FIXED	HAPS ground station shall not claim
FIXED <u>5.550D</u>	FIXED BHR3	IMT	protection from stations in the fixed, mobile and fixed-satellite services; and <u>No. 5.43A</u> does not apply. This identification does not preclude the use of
FIXED <u>5.550D</u>	FIXED-SATELLITE (space-		
FIXED-SATELLITE (space-to-Earth) 5.550C	to-Earth)		this frequency band by other fixed-service applications or by other services to which
MOBILE <u>5.550B</u>	MOBILE		this frequency band is allocated on a co- primary basis and does not establish
Earth exploration-satellite (space-to-Earth)	Earth exploration-satellite (space-to-Earth)		priority in the Radio Regulations. Furthermore, the development of the
<u>5.547</u>			furthermore, the development of the fixed-satellite, fixed and mobile services shall not be unduly constrained by HAPS. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution 168 (WRC-19)


<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
39.5-40 GHz	39.5-40 GHz	FIXED	
FIXED	FIXED BHR3	IMT	
FIXED-SATELLITE (space-to-Earth) <u>5.516B</u> <u>5.550C</u>	FIXED-SATELLITE (space-to-Earth)		
MOBILE <u>5.550B</u>	MOBILE		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-		
Earth exploration-satellite (space-to-Earth)	to-Earth)		
<u>5.547 5.550E</u>	Earth exploration-satellite (space-to-Earth)		
40-40.5 GHz	40-40.5 GHz	FIXED	
EARTH EXPLORATION-SATELLITE (Earth-to-space)	EARTH EXPLORATION- SATELLITE (Earth-to-space)	IMT	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (space-to-Earth) <u>5.516B</u> <u>5.550C</u>	FIXED-SATELLITE (space-to-Earth)		
MOBILE <u>5.550B</u>	MOBILE		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space- to-Earth)		
SPACE RESEARCH (Earth-to-space)	SPACE RESEARCH (Earth-		
Earth exploration-satellite (space-to-Earth)	to-space)		
<u>5.550E</u>	Earth exploration-satellite (space-to-Earth)		
40.5-41 GHz	40.5-41 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>	IMT	
FIXED-SATELLITE (space-to-Earth) <u>5.550C</u> LAND MOBILE 5.550B	FIXED-SATELLITE (space- to-Earth)		
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE	BROADCASTING- SATELLITE		
Aeronautical mobile	LAND MOBILE		
Maritime mobile	LAND MOBILE		
<u>5.547</u>			
41-42.5 GHz	41-42.5 GHz	FIXED	
FIXED	FIXED <u>BHR3</u>	IMT	
FIXED-SATELLITE (space-to-Earth) <u>5.516B</u> <u>5.550C</u>	FIXED-SATELLITE (space-to-Earth)		
LAND MOBILE <u>5.550B</u>	BROADCASTING		
BROADCASTING	BROADCASTING-		
BROADCASTING-SATELLITE	SATELLITE LAND MOBILE		
Aeronautical mobile	LAND NUODILE		
Maritime mobile			
<u>5.547</u> 5.551F <u>5.551H</u> <u>5.5511</u>			

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
42.5-43.5 GHz	42.5-43.5 GHz	FIXED	
FIXED	FIXED BHR3	IMT	
FIXED-SATELLITE (Earth-to-space) 5.552	FIXED-SATELLITE (Earth-		
MOBILE except aeronautical mobile 5.550B	to-space)		
RADIO ASTRONOMY	MOBILE except aeronautical mobile		
<u>5.149</u> <u>5.547</u>	RADIO ASTRONOMY		
43.5-47 GHz	43.5-45.5 GHz	Satellite Operations	
MOBILE <u>5.553</u> <u>5.553A</u>	MOBILE		
	MOBILE-SATELLITE		
MOBILE-SATELLITE	RADIONAVIGATION		
RADIONAVIGATION RADIONAVIGATION-SATELLITE	RADIONAVIGATION- SATELLITE		
<u>5.554</u>	45.5-47 GHz	IMT	
	MOBILE		
	MOBILE-SATELLITE		
	RADIONAVIGATION		
	RADIONAVIGATION- SATELLITE		
47-47.2 GHz	47-47.2 GHz		Maximum power for Amateur is 50W
AMATEUR	AMATEUR BHR2		(e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
47.2-47.5 GHz	47.2-47.5 GHz	IMT	HAPS identification does not
FIXED	FIXED		preclude the use of this frequency band by any application of the
FIXED-SATELLITE (Earth-to-space) <u>5.550C</u> 5.552	FIXED-SATELLITE (Earth- to-space)		services to which it is allocated on a co-primary basis, and does not
MOBILE <u>5.553B</u>	MOBILE		establish priority in the Radio Regulations. Such use of the fixed-
<u>5.552A</u>			service allocation in the frequency band by HAPS shall be in accordance
			with the provisions of Resolution 122 (Rev.WRC-19)
47.5-47.9 GHz	47.5-47.9 GHz	IMT	
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) <u>5.550C</u> <u>5.552</u> (space-to-Earth) <u>5.516B</u> <u>5.554A</u>	FIXED-SATELLITE (Earth- to-space) (space-to-Earth)		
MOBILE <u>5.553B</u>	MOBILE		



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
47.9-48.2 GHz	47.9-48.2 GHz	IMT	HAPS identification does not
FIXED	FIXED		preclude the use of this frequency band by any application of the
FIXED-SATELLITE (Earth-to-space) <u>5.550C</u> 5.552	FIXED-SATELLITE (Earth- to-space)		services to which it is allocated on a co-primary basis, and does not
MOBILE <u>5.553B</u>	MOBILE		establish priority in the Radio Regulations. Such use of the fixed-
<u>5.552A</u>			service allocation in the frequency band by HAPS shall be in accordance with the provisions of Resolution 122 (Rev.WRC-19)
48.2-48.54 GHz	48.2-48.54 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (Earth-to-space) <u>5.550C</u> <u>5.552</u> (space-to-Earth) <u>5.516B</u> <u>5.554A</u>	FIXED-SATELLITE (Earth- to-space) (space-to-Earth)		
<u>5.555B</u>	MOBILE		
MOBILE 48.54-49.44 GHz	48.54-49.44 GHz	FIXED	
		FIXED	
FIXED	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) <u>5.550C</u> <u>5.552</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE	RADIO ASTRONOMY		
<u>5.149</u> <u>5.340</u> <u>5.555</u>	MOBILE		
49.44-50.2 GHz	49.44-50.2 GHz	FIXED	
FIXED	FIXED BHR3		
FIXED-SATELLITE (Earth-to-space) <u>5.338A</u> <u>5.550C</u> <u>5.552</u> (space-to-Earth) <u>5.516B</u> <u>5.5554A</u> <u>5.555B</u>	FIXED-SATELLITE (Earth- to-space) (space-to-Earth)		
MOBILE	MOBILE		
50.2-50.4 GHz	50.2-50.4 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
50.4-51.4 GHz	50.4-51.4 GHz		
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) <u>5.338A</u> <u>5.550C</u>	FIXED-SATELLITE (Earth- to-space)		
MOBILE	MOBILE		
Mobile-satellite (Earth-to-space)	Mobile-satellite (Earth-to- space)		
51.4-52.4 GHz	51.4-52.4 GHz	FIXED	In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy
FIXED <u>5.338A</u>	FIXED <u>BHR3</u>		observations may be carried out under
FIXED-SATELLITE (Earth-to-space) 5.555C	MOBILE		national arrangements
MOBILE			
<u>5.547</u> <u>5.556</u>			

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<b>RR Region 1 Allocations</b>	Frequency Allocations	Major Unisation	Additional Information
52.4-52.6 GHz	52.4-52.6 GHz	FIXED	In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy
FIXED <u>5.338A</u>	FIXED BHR3		observations may be carried out under
MOBILE	MOBILE		national arrangements
<u>5.547</u> <u>5.556</u>			
52.6-54.25 GHz	52.6-54.25 GHz		In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		observations may be carried out under national arrangements
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.556</u>			
54.25-55.78 GHz	54.25-55.78 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
INTER-SATELLITE <u>5.556A</u>	INTER-SATELLITE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.556B			
55.78-56.9 GHz	55.78-56.9 GHz	FIXED	55.78-56.26 GHz, the maximum power
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		density delivered by a transmitter to the antenna is limited to – 26 dB (W/MHz)"
FIXED <u>5.557A</u>	FIXED <u>BHR3</u>		
INTER-SATELLITE 5.556A	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.547</u> 5.557			
56.9-57 GHz	56.9-57 GHz	FIXED	
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED <u>BHR3</u>		
INTER-SATELLITE <u>5.558A</u>	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.547</u> 5.557			
57-58.2 GHz	57-58.2 GHz	FIXED	Fixed point to point systems may be
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		provided within the technical parameters "Maximum EIRP +55 dBm, Minimum antenna gain +30 dBi
FIXED	FIXED <u>BHR3</u>		and Maximum transmitter output
INTER-SATELLITE 5.556A	INTER-SATELLITE		power +10 dBm"
MOBILE <u>5.558</u>	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.547</u> 5.557	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
<b>58.2-59 GHz</b> EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) <u>5.547</u> 5.556	58.2-59 GHz EARTH EXPLORATION- SATELLITE (passive) FIXED <u>BHR3</u> MOBILE SPACE RESEARCH (passive) <u>BHR4</u>	FIXED	Fixed point to point systems may be provided within the technical parameters "Maximum EIRP +55 dBm, Minimum antenna gain +30 dBi and Maximum transmitter output power +10 dBm"
<b>59-59.3 GHz</b> EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE <u>5.556A</u> MOBILE <u>5.558</u> RADIOLOCATION <u>5.559</u> SPACE RESEARCH (passive)	59-59.3 GHz EARTH EXPLORATION- SATELLITE (passive) FIXED <u>BHR3</u> INTER-SATELLITE MOBILE RADIOLOCATION SPACE RESEARCH (passive) <u>BHR4</u>	FIXED	Fixed point to point systems may be provided within the technical parameters "Maximum EIRP +55 dBm, Minimum antenna gain +30 dBi and Maximum transmitter output power +10 dBm" and limit on the transmit output power density (- 10dBm/MHz) and can be implemented to support the deployment of wideband systems for bandwidth higher than 100 MHz by consequently limiting the maximum transmitter output power for narrow band systems bandwidth lower than 100 MHz below that of the maximum (+10dBm) allowed in the 59 - 64 GHz band. This limit will not apply for implement narrowband systems in the band
<b>59.3-64 GHz</b> FIXED INTER-SATELLITE MOBILE <u>5.558</u> RADIOLOCATION <u>5.559</u> <u>5.138</u>	59.3-64 GHz FIXED <u>BHR3</u> INTER-SATELLITE MOBILE RADIOLOCATION <u>BHR4</u>	FIXED	Fixed point to point systems may be provided within the technical parameters "Maximum EIRP +55 dBm, Minimum antenna gain +30 dBi and Maximum transmitter output power +10 dBm" and limit on the transmit output power density (- 10dBm/MHz) and can be implemented to support the deployment of wideband systems for bandwidth higher than 100 MHz by consequently limiting the maximum transmitter output power for narrow band systems bandwidth lower than 100 MHz below that of the maximum (+10dBm) allowed in the 59 - 64 GHz band. This limit will not apply for implement narrowband systems in the band
64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	64-65 GHz FIXED <u>BHR3</u> INTER-SATELLITE MOBILE except aeronautical mobile <u>BHR4</u>	FIXED	

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
65-66 GHz	65-66 GHz	FIXED	
EARTH EXPLORATION-SATELLITE FIXED	EARTH EXPLORATION- SATELLITE		
INTER-SATELLITE	FIXED BHR3		
MOBILE except aeronautical mobile	INTER-SATELLITE		
SPACE RESEARCH	MOBILE except aeronautical mobile		
<u>5.547</u>	SPACE RESEARCH		
	BHR4		
66-71 GHz	66-71 GHz	IMT	
INTER-SATELLITE	INTER-SATELLITE		
MOBILE <u>5.553</u> <u>5.558</u> <u>5.559AA</u>	MOBILE		
MOBILE-SATELLITE	MOBILE-SATELLITE		
RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE 5.554	RADIONAVIGATION- SATELLITE		
71-74 GHz	71-74 GHz	FIXED	Paired with 81 - 86 GHz for Fixed
FIXED	FIXED BHR3		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-		
MOBILE	to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE MOBILE-SATELLITE (space- to-Earth)		
74-76 GHz	74-76 GHz	FIXED	Paired with 81 – 86 GHz for Fixed
FIXED	FIXED BHR3	TIMED	
FIXED-SATELLITE (space-to-Earth) MOBILE	FIXED-SATELLITE (space- to-Earth)		
BROADCASTING	MOBILE		
BROADCASTING-SATELLITE	BROADCASTING		
Space research (space-to-Earth)	BROADCASTING- SATELLITE		
<u>5.561</u>	Space research (space-to- Earth)		
	BHR4		
76-77.5 GHz	76-77.5 GHz		Maximum power for Amateur is 100W
RADIO ASTRONOMY	RADIO ASTRONOMY		(e.i.r.p).
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
Amateur-satellite	Amateur-satellite		
Space research (space-to-Earth)	Space research (space-to- Earth)		
<u>5.149</u>	BHR4		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
77.5-78 GHz	77.5-78 GHz		Maximum power for Amateur is 100W
AMATEUR	AMATEUR BHR2		(e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
RADIOLOCATION 5.559B	RADIOLOCATION		
Radio astronomy	Radio astronomy		
Space research (space-to-Earth) 5.149	Space research (space-to- Earth)		
78-79 GHz	<u>BHR4</u> 78-79 GHz		M · · · · · · · · · · · · · · · · · · ·
RADIOLOCATION	RADIOLOCATION		Maximum power for Amateur is 100W (e.i.r.p).
Amateur	Amateur <u>BHR2</u>		
Amateur-satellite	Amateur-satellite		
Radio astronomy	Radio astronomy		
Space research (space-to-Earth)	Space research (space-to- Earth)		
<u>5.149</u> <u>5.560</u>	BHR4		
79-81 GHz	79-81 GHz		Maximum power for Amateur is 100W
RADIO ASTRONOMY	RADIO ASTRONOMY		(e.i.r.p).
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
Amateur-satellite	Amateur-satellite		
Space research (space-to-Earth) 5.149	Space research (space-to- Earth)		
01 04 GW	BHR4	DIVED	
81-84 GHz	81-84 GHz	FIXED	Paired with 71 – 76 GHz for Fixed
FIXED <u>5.338A</u>	FIXED <u>BHR3</u>		
FIXED-SATELLITE (Earth-to-space) MOBILE	FIXED-SATELLITE (Earth- to-space)		
MOBILE-SATELLITE (Earth-to-space)	MOBILE		
RADIO ASTRONOMY	MOBILE-SATELLITE (Earth- to-space)		
Space research (space-to-Earth)	RADIO ASTRONOMY		
<u>5.149</u> <u>5.561A</u>	Space research (space-to- Earth)		
	BHR4		
84-86 GHz	84-86 GHz	FIXED	Paired with 71 – 76 GHz for Fixed
FIXED <u>5.338A</u>	FIXED BHR3		
FIXED-SATELLITE (Earth-to-space) 5.561B	FIXED-SATELLITE (Earth-		
MOBILE	to-space)		
	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
<u>5.149</u>	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
86-92 GHz	86-92 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
92-94 GHz	92-94 GHz	FIXED	
FIXED <u>5.338A</u>	FIXED BHR3		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
<u>5.149</u>			
94-94.1 GHz	94-94.1 GHz		
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
Radio astronomy	Radio astronomy		
<u>5.562</u> <u>5.562A</u>			
94.1-95 GHz	94.1-95 GHz	FIXED	
FIXED	FIXED BHR3		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
5.149			
95-100 GHz	95-100 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION- SATELLITE		
<u>5.149</u> <u>5.554</u> 100-102 GHz	100-102 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.341</u>	SI ACE RESEARCH (passive)		



RR Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
102-105 GHz	102-105 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
<u>5.149 5.341</u>			
105-109.5 GHz	105-109.5 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive)		
5.149 5.341	_		
109.5-111.8 GHz	109.5-111.8 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.341</u>			
111.8-114.25 GHz	111.8-114.25 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive) 5.562B	SPACE RESEARCH (passive)		
<u>5.149</u> <u>5.341</u>			
114.25-116 GHz	114.25-116 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.341</u>			
116-119.98 GHz	116-119.98 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
INTER-SATELLITE <u>5.562C</u>	INTER-SATELLITE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.341</u>			
119.98-122.25 GHz	119.98-122.25 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
INTER-SATELLITE <u>5.562C</u>	INTER-SATELLITE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.138</u> <u>5.341</u>	BHR4		

<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
122.25-123 GHz	122.25-123 GHz		Maximum power for Amateur is 100W
FIXED	FIXED		(e.i.r.p).
INTER-SATELLITE	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		
Amateur	Amateur BHR2		
<u>5.138</u>	BHR4		
123-130 GHz	123-130 GHz		
FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space- to-Earth)		
RADIONAVIGATION	MOBILE-SATELLITE (space- to-Earth)		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION		
Radio astronomy 5.562D 5.149 5.554	RADIONAVIGATION- SATELLITE		
	Radio astronomy		
130-134 GHz	130-134 GHz		
EARTH EXPLORATION-SATELLITE (active) <u>5.562E</u>	EARTH EXPLORATION- SATELLITE (active)		
FIXED	FIXED		
INTER-SATELLITE	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
<u>5.149</u> <u>5.562A</u>			
134-136 GHz	134-136 GHz		Maximum power for Amateur is 100W
AMATEUR	AMATEUR BHR2		(e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
Radio astronomy	Radio astronomy		
136-141 GHz	136-141 GHz		Maximum power for Amateur is 100W (e.i.r.p).
RADIO ASTRONOMY	RADIO ASTRONOMY		(c.1.1.p).
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
Amateur-satellite	Amateur-satellite		
<u>5.149</u>			
141-148.5 GHz	141-148.5 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
<u>5.149</u>			



<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
148.5-151.5 GHz	148.5-151.5 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340			
151.5-155.5 GHz	151.5-155.5 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
5.149			
155.5-158.5 GHz	155.5-158.5 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149			
158.5-164 GHz	158.5-164 GHz		
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-		
MOBILE	to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE		
MOBILE-SATELLITE (space-to-Eartin)	MOBILE-SATELLITE (space- to-Earth)		
164-167 GHz	164-167 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
167-174.5 GHz	167-174.5 GHz		
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-		
INTER-SATELLITE	to-Earth)		
MOBILE <u>5.558</u>	INTER-SATELLITE		
<u>5.149</u> 5.562D	MOBILE		
174.5-174.8 GHz	174.5-174.8 GHz		
FIXED	FIXED		
INTER-SATELLITE	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
174.8-182 GHz	174.8-182 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
INTER-SATELLITE <u>5.562H</u>	INTER-SATELLITE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
182-185 GHz	182-185 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
185-190 GHz	185-190 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
INTER-SATELLITE <u>5.562H</u>	INTER-SATELLITE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
190-191.8 GHz	190-191.8 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
191.8-200 GHz	191.8-200 GHz		
FIXED	FIXED		
INTER-SATELLITE	INTER-SATELLITE		
MOBILE <u>5.558</u>	MOBILE		
MOBILE-SATELLITE	MOBILE-SATELLITE		
RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-		
<u>5.149</u> <u>5.341</u> <u>5.554</u>	SATELLITE		
200-209 GHz	200-209 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340 5.341 5.563A</u>	(Table)		
209-217 GHz	209-217 GHz		
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) MOBILE	FIXED-SATELLITE (Earth- to-space)		
RADIO ASTRONOMY	MOBILE		



<b>RR</b> Region 1 Allocations	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
217-226 GHz	217-226 GHz		
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		
MOBILE	to-space)		
RADIO ASTRONOMY	MOBILE		
SPACE RESEARCH (passive) 5.562B	RADIO ASTRONOMY		
<u>5.149</u> <u>5.341</u>	SPACE RESEARCH (passive)		
226-231.5 GHz	226-231.5 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u>			
231.5-232 GHz	231.5-232 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
Radiolocation	Radiolocation		
232-235 GHz	232-235 GHz		
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space- to-Earth)		
MOBILE	MOBILE		
Radiolocation	Radiolocation		
235-238 GHz	235-238 GHz		The band 237.9-238 GHz is also
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		allocated to the Earth exploration- satellite service (active) and the space research service (active) for
FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)	FIXED-SATELLITE (space- to-Earth)		spaceborne cloud radars only
· ·	SPACE RESEARCH (passive)		
<u>5.563A</u> <u>5.563B</u>			
238-240 GHz	238-240 GHz		
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth) MOBILE	FIXED-SATELLITE (space- to-Earth)		
RADIOLOCATION	MOBILE		
RADIONAVIGATION	RADIOLOCATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION		
	RADIONAVIGATION- SATELLITE		

<b>RR Region 1 Allocations</b>	The Kingdom's National Frequency Allocations	Major Utilisation	Additional Information
240-241 GHz	240-241 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
RADIOLOCATION	RADIOLOCATION		
241-248 GHz	241-248 GHz		Maximum power for Amateur is 100W
RADIO ASTRONOMY	RADIO ASTRONOMY		(e.i.r.p).
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur BHR2		
Amateur-satellite	Amateur-satellite		
<u>5.138</u> <u>5.149</u>	BHR4		
248-250 GHz	248-250 GHz		Maximum power for Amateur is 100W
AMATEUR	AMATEUR BHR2		(e.i.r.p).
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
Radio astronomy	Radio astronomy		
<u>5.149</u>	BHR4		
250-252 GHz	250-252 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
<u>5.340</u> <u>5.563A</u>			
252-265 GHz	252-265 GHz		
FIXED	FIXED		
MOBILE	MOBILE		
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth- to-space)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-		
<u>5.149</u>	SATELLITE		
265-275 GHz	265-275 GHz		
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-		
MOBILE	to-space)		
RADIO ASTRONOMY	MOBILE		
<u>5.149</u> <u>5.563A</u>	RADIO ASTRONOMY		
275-3 000 GHz	275-3 000 GHz		
(Not allocated) <u>5.564A</u> <u>5.565</u>	(Not allocated)		

## Annex 1 Relevant footnotes from ITU Radio Regulations

- **5.53** Administrations authorizing the use of frequencies below 8.3 kHz shall ensure that no harmful interference is caused to services to which the bands above 8.3 kHz are allocated. (WRC-12)
- **5.54** Administrations conducting scientific research using frequencies below 8.3 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference. (WRC-12)
- **5.54A** Use of the 8.3-11.3 kHz frequency band by stations in the meteorological aids service is limited to passive use only. In the band 9-11.3 kHz, meteorological aids stations shall not claim protection from stations of the radionavigation service submitted for notification to the Bureau prior to 1 January 2013. For sharing between stations of the meteorological aids service and stations in the radionavigation service submitted for notification after this date, the most recent version of Recommendation ITU-R RS.1881 should be applied. (WRC-12)
- **5.54B** Additional allocation: in Algeria, Saudi Arabia, **Bahrain**, Egypt, the United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Kuwait, Lebanon, Morocco, Qatar, the Syrian Arab Republic, Sudan and Tunisia, the frequency band 8.3-9 kHz is also allocated to the radionavigation, fixed and mobile services on a primary basis. (WRC-15)
- **5.56** The stations of services to which the bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the bands 72-84 kHz and 86-90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-12)
- **5.57** The use of the bands 14-19.95 kHz, 20.05-70 kHz and 70-90 kHz (72-84 kHz and 86-90 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
- **5.60** In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
- **5.62** Administrations which operate stations in the radionavigation service in the band 90-110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
- 5.64 Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.
- **5.67A** Stations in the amateur service using frequencies in the band 135.7-137.8 kHz shall not exceed a maximum radiated power of 1 W (e.i.r.p.) and shall not cause harmful interference to stations of the radionavigation service operating in countries listed in No. 5.67. (WRC-07)
- **5.73** The band 285-325 kHz (283.5-325 kHz in Region 1) in the maritime radionavigation service may be used to transmit supplementary navigational information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service. (WRC-97)
- **5.74** *Additional Allocation:* in Region 1, the frequency band 285.3-285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
- **5.76** The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405-415 kHz is allocated shall not cause harmful interference to radio direction-finding in the band 406.5-413.5 kHz.

- **5.79A** When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution **339** (**Rev.WRC-07**)). (WRC-07)
- 5.80A The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the amateur service using frequencies in the band 472-479 kHz shall not exceed 1 W. Administrations may increase this limit of e.i.r.p. to 5 W in portions of their territory which are at a distance of over 800 km from the borders of Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, Ukraine and Yemen. In this frequency band, stations in the amateur service shall not cause harmful interference to, or claim protection from, stations of the aeronautical radionavigation service. (WRC-12)
- **5.80B** The use of the frequency band 472-479 kHz in Algeria, Saudi Arabia, Azerbaijan, **Bahrain**, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia and Yemen is limited to the maritime mobile and aeronautical radionavigation services. The amateur service shall not be used in the above-mentioned countries in this frequency band, and this should be taken into account by the countries authorizing such use. (WRC-12)
- 5.82 In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrowband direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and 52. In using the frequency band 415-495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz. In using the frequency band 472-479 kHz for the amateur service, administrations shall ensure that no harmful interference is caused to the frequency 490 kHz. In using the frequency 490 kHz. (WRC-12)
- **5.82C** The frequency band 495-505 kHz is used for the international NAVDAT system as described in the most recent version of Recommendation ITU-R M.2010. NAVDAT transmitting stations are limited to coast stations. (WRC-19)
- 5.84 The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52. (WRC-07)
- 5.92 Some countries of Region 1 use radiodetermination systems in the bands 1 606.5-1 625 kHz, 1 635-1 800 kHz, 1 850-2 160 kHz, 2 194-2 300 kHz, 2 502-2 850 kHz and 3 500-3 800 kHz, subject to agreement obtained under No. 9.21. The radiated mean power of these stations shall not exceed 50 W.
- **5.99** *Additional allocation:* in Saudi Arabia, Austria, Iraq, Libya, Uzbekistan, Slovakia, Romania, Slovenia, Chad, and Togo, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
- **5.100** In Region 1, the authorization to use the band 1 810-1 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. **5.98** and **5.99** to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. **5.98** and **5.99**.
- **5.103** In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 850-2 045 kHz, 2 194-2 498 kHz, 2 502-2 625 kHz and 2 650-2 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
- 5.104 In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
- **5.107** *Additional allocation:* in Saudi Arabia, Eritrea, Eswatini, Ethiopia, Iraq, Libya and Somalia, the frequency band 2 160-2 170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W. (WRC-19)
- **5.108** The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles **31** and **52**. (WRC-07)

- **5.109** The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article **31**.
- **5.110** The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article **31**.
- 5.111 The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31.

The same applies to the frequencies 10 003 kHz, 14 993 kHz and 19 993 kHz, but in each of these cases emissions must be confined in a band of  $\pm$  3 kHz about the frequency. (WRC-07)

- **5.113** For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. **5.16** to **5.20**, **5.21** and **23.3** to **23.10**.
- **5.115** The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article **31**, by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)
- 5.116 Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs. It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
- **5.127** The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. **52.220** and Appendix **17**).
- **5.130** The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles **31** and **52**. (WRC-07)
- **5.131** The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques. (WRC-97)
- **5.132** The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendix **17**).
- **5.132A** Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612** (**Rev.WRC-12**). (WRC-12)
- 5.133B Stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 15 W (e.i.r.p.). However, in Region 2 in Mexico, stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 20 W (e.i.r.p.). In the following Region 2 countries: Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Dominica, El Salvador, Ecuador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, Saint Kitts and Nevis, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, Venezuela, as well as the overseas countries and territories within the Kingdom of the Netherlands in Region 2, stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 25 W (e.i.r.p.). (WRC-19)
- 5.134 The use of the frequency bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600- 15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz by the broadcasting service is subject to the application of the procedure of Article 12. Administrations are encouraged to use these frequency bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution 517 (Rev.WRC-19). (WRC-19)

- **5.136** *Additional allocation:* frequencies in the band 5 900-5 950 kHz may be used by stations in the following services, communicating only within the boundary of the country in which they are located: fixed service (in all three Regions), land mobile service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2 and 3), on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.137 On condition that harmful interference is not caused to the maritime mobile service, the bands 6 200-6 213.5 kHz and 6 220.5-6 525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.
- **5.138** The following bands:

6 765-6 795 kHz	(centre frequency 6 780 kHz),
433.05-434.79 MHz	(centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. <b>5.280</b> ,
61-61.5 GHz	(centre frequency 61.25 GHz),
122-123 GHz	(centre frequency 122.5 GHz), and
244-246 GHz	(centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

- 5.141B Additional allocation: in Algeria, Saudi Arabia, Australia, Bahrain, Botswana, Brunei Darussalam, China, Comoros, Korea (Rep. of), Diego Garcia, Djibouti, Egypt, United Arab Emirates, Eritrea, Guinea, Indonesia, Iran (Islamic Republic of), Japan, Jordan, Kuwait, Libya, Mali, Morocco, Mauritania, Niger, New Zealand, Oman, Papua New Guinea, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Sudan, South Sudan, Tunisia, Viet Nam and Yemen, the frequency band 7 100-7 200 kHz is also allocated to the fixed and the mobile, except aeronautical mobile (R), services on a primary basis. (WRC-19)
- **5.143** *Additional allocation:* frequencies in the band 7 300-7 350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- 5.143B In Region 1, frequencies in the band 7 350-7 450 kHz may be used by stations in the fixed and land mobile services communicating only within the boundary of the country in which they are located on condition that harmful interference is not caused to the broadcasting service. The total radiated power of each station shall not exceed 24 dBW. (WRC-12)
- 5.143C Additional allocation: in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Iran (Islamic Republic of), Jordan, Kuwait, Libya, Morocco, Mauritania, Niger, Oman, Qatar, the Syrian Arab Republic, Sudan, South Sudan, Tunisia and Yemen, the bands 7 350-7 400 kHz and 7 400-7 450 kHz are also allocated to the fixed service on a primary basis. (WRC-12)
- 5.145 The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles 31 and 52. (WRC-07)
- **5.145A** Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed service. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612 (Rev.WRC-12)**. (WRC-12)
- 5.146 Additional allocation: frequencies in the bands 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)

**5.147** On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and 11 975-12 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

5.149 In making assignments to stations of other services to which the bands:

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13 360-13 410 kHz,	4 950-4 990 MHz,	102-109.5 GHz,
25 550-25 670 kHz,	4 990-5 000 MHz,	111.8-114.25 GHz,
37.5-38.25 MHz,	6 650-6 675.2 MHz,	128.33-128.59 GHz,
73-74.6 MHz in Regions 1 and 3,	10.6-10.68 GHz,	129.23-129.49 GHz,
150.05-153 MHz in Region 1,	14.47-14.5 GHz,	130-134 GHz,
322-328.6 MHz,	22.01-22.21 GHz,	136-148.5 GHz,
406.1-410 MHz,	22.21-22.5 GHz,	151.5-158.5 GHz,
608-614 MHz in Regions 1 and 3,	22.81-22.86 GHz,	168.59-168.93 GHz,
1 330-1 400 MHz,	23.07-23.12 GHz,	171.11-171.45 GHz,
1 610.6-1 613.8 MHz,	31.2-31.3 GHz,	172.31-172.65 GHz,
1 660-1 670 MHz,	31.5-31.8 GHz in Regions 1 and 3,	173.52-173.85 GHz,
1 718.8-1 722.2 MHz,	36.43-36.5 GHz,	195.75-196.15 GHz,
2 655-2 690 MHz,	42.5-43.5 GHz,	209-226 GHz,
3 260-3 267 MHz,	48.94-49.04 GHz,	241-250 GHz,
3 332-3 339 MHz,	76-86 GHz,	252-275 GHz
3 345.8-3 352.5 MHz,	92-94 GHz,	
4 825-4 835 MHz,	94.1-100 GHz,	

are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. **4.5** and **4.6** and Article **29**). (WRC-07)

## **5.150** The following bands:

13 553-13 567 kHz	(centre frequency 13 560 kHz),
26 957-27 283 kHz	(centre frequency 27 120 kHz),
40.66-40.70 MHz	(centre frequency 40.68 MHz),
902-928 MHz	in Region 2 (centre frequency 915 MHz),
2 400-2 500 MHz	(centre frequency 2 450 MHz),
5 725-5 875 MHz	(centre frequency 5 800 MHz), and
24-24.25 GHz	(centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. **15.13**.

- **5.151** *Additional allocation:* frequencies in the bands 13 570-13 600 kHz and 13 800-13 870 kHz may be used by stations in the fixed service and in the mobile except aeronautical mobile (R) service, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
- **5.155B** The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
- 5.156A The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.
- 5.157 The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.

- **5.166B** In Region 1, stations in the amateur service operating on a secondary basis shall not cause harmful interference to, or claim protection from, stations of the broadcasting service. The field strength generated by an amateur station in Region 1 in the frequency band 50-52 MHz shall not exceed a calculated value of  $+6 \text{ dB}(\mu\text{V/m})$  at a height of 10 m above ground for more than 10% of time along the border of a country with operational analogue broadcasting stations in Region 1 and of neighbouring countries with broadcasting stations in Region 3 listed in Nos. **5.167** and **5.168**. (WRC-19)
- **5.166C** In Region 1, stations in the amateur service in the frequency band 50-52 MHz, with the exception of those countries listed in No. **5.169**, shall not cause harmful interference to, or claim protection from, wind profiler radars operating in the radiolocation service under No. **5.162A**. (WRC-19)
- 5.169A Alternative allocation: in the following countries in Region 1: Angola, Saudi Arabia, Bahrain, Burkina Faso, Burundi, the United Arab Emirates, Gambia, Jordan, Kenya, Kuwait, Mauritius, Mozambique, Oman, Uganda, Qatar, South Sudan and Tanzania, the frequency band 50- 54 MHz is allocated to the amateur service on a primary basis. In Guinea-Bissau, the frequency band 50.0-50.5 MHz is allocated to the amateur service on a primary basis. In Djibouti, the frequency band 50-52 MHz is allocated to the amateur service on a primary basis. With the exception of those countries listed in No. 5.169, stations in the amateur service operating in Region 1 under this footnote, in all or part of the frequency band 50-54 MHz, shall not cause harmful interference to, or claim protection from, stations of other services operating in accordance with the Radio Regulations in Algeria, Egypt, Iran (Islamic Republic of), Iraq, Israel, Libya, Palestine <sup>1</sup>, the Syrian Arab Republic, the Dem. People's Republic of Korea, Sudan and Tunisia. The field strength generated by an amateur station in the frequency band 50-54 MHz shall not exceed a value of +6 dB(μV/m) at a height of 10 m above ground for more than 10% of time along the borders of listed countries requiring protection. (WRC-19)
- 5.169B Except countries listed under No. 5.169, stations in the amateur service used in Region 1, in all or part of the 50-54 MHz frequency band, shall not cause harmful interference to, or claim protection from, stations of other services used in accordance with the Radio Regulations in Algeria, Armenia, Azerbaijan, Belarus, Egypt, Russian Federation, Iran (Islamic Republic of), Iraq, Kazakhstan, Kyrgyzstan, Libya, Uzbekistan, Palestine <sup>1</sup>, the Syrian Arab Republic, Sudan, Tunisia and Ukraine. The field strength generated by an amateur station in the frequency band 50-54 MHz shall not exceed a value of +6 dB(μV/m) at a height of 10 m above ground for more than 10% of time along the borders of the countries listed in this provision. (WRC-19)
- 5.197A Additional allocation: the band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC--07)<sup>2</sup>. The use of the band 108-112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air.
- 5.180 The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons. Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.
- **5.200** In the band 117.975-137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article **31** for distress and safety purposes with stations of the aeronautical mobile service. (WRC-07)
- **5.202** *Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, **Bahrain**, Belarus, Bulgaria, the United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic Republic of), Jordan, Mali, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, Senegal, Tajikistan, Turkmenistan and Ukraine, the frequency band 136-137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-19)

<sup>&</sup>lt;sup>1</sup> Pursuant to Resolution 99 (Rev. Dubai, 2018) and taking into account the Israeli-Palestinian Interim Agreement of 28 September 1995.

<sup>&</sup>lt;sup>2</sup> Note by the Secretariat: This Resolution was revised by WRC-12.

- 5.203C The use of the space operation service (space-to-Earth) with non-geostationary satellite short-duration mission systems in the frequency band 137-138 MHz is subject to Resolution 660 (WRC-19). Resolution 32 (WRC-19) applies. These systems shall not cause harmful interference to, or claim protection from, the existing services to which the frequency band is allocated on a primary basis. (WRC-19)
- 5.204 Different category of service: in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Kuwait, Montenegro, Oman, Pakistan, the Philippines, Qatar, Singapore, Thailand and Yemen, the frequency band 137-138 MHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis (see No. 5.33). (WRC-19)
- 5.208 The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)
- 5.208A In making assignments to space stations in the mobile-satellite service in the frequency bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz and in the maritime mobile-satellite service (space-to-Earth) in the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the frequency bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from unwanted emissions as shown in the most recent version of Recommendation ITU-R RA.769. (WRC-19)
- **5.208B**<sup>3</sup> In the frequency bands: 137-138 MHz,

157.1875-157.3375 MHz, 157.1875-157.3375 MHz, 161.7875-161.9375 MHz, 387-390 MHz, 400.15-401 MHz, 1 452-1 492 MHz, 1 525-1 610 MHz, 1 613.8-1 626.5 MHz, 2 655-2 690 MHz, 21.4-22 GHz,

Resolution 739 (Rev.WRC-19) applies. (WRC-19)

- 5.209 The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 454-456 MHz and 459-460 MHz by the mobile-satellite service is limited to non-geostationary-satellite systems. (WRC-97)
- 5.209A The use of the frequency band 137.175-137.825 MHz by non-geostationary satellite systems in the space operation service identified as short-duration mission in accordance with Appendix 4 is not subject to No. 9.11A. (WRC-19)
- 5.211 Additional allocation: in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Guinea, Ireland, Israel, Kenya, Kuwait, Lebanon, Liechtenstein, Luxembourg, North Macedonia, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the frequency band 138-144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-19)
- **5.218** Additional allocation: the band 148-149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. **9.21**. The bandwidth of any individual transmission shall not exceed  $\pm 25$  kHz.
- 5.218A The frequency band 148-149.9 MHz in the space operation service (Earth-to-space) may be used by non-geostationary satellite systems with short-duration missions. Non-geostationary satellite systems in the space operation service used for a short-duration mission in accordance with Resolution 32 (WRC-19) of the Radio Regulations are not subject to agreement under No. 9.21. At the stage of coordination, the provisions of Nos. 9.17 and 9.18 also apply. In the frequency band 148-149.9 MHz, non-geostationary satellite systems with short-duration missions shall not cause unacceptable interference to, or claim protection from, existing primary services within this frequency band, or impose additional constraints on the space operation and mobile-

<sup>&</sup>lt;sup>3</sup> This provision was previously numbered as No. 5.347A. It was renumbered to preserve the sequential order.

satellite services. In addition, earth stations in non-geostationary satellite systems in the space operation service with short-duration missions in the frequency band 148-149.9 MHz shall ensure that the power flux-density does not exceed  $-149 \text{ dB}(W/(m2 \cdot 4 \text{ kHz}))$  for more than 1% of time at the border of the territory of the following countries: Armenia, Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, Russian Federation, India, Iran (Islamic Republic of), Japan, Kazakhstan, Malaysia, Uzbekistan, Kyrgyzstan, Thailand and Viet Nam. In case this power flux-density limit is exceeded, agreement under No. **9.21** is required to be obtained from countries mentioned in this footnote. (WRC-19)

- 5.219 The use of the frequency band 148-149.9 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the frequency band 148-149.9 MHz. The use of the frequency band 148-149.9 MHz by non-geostationary-satellite systems in the space operation service identified as short-duration mission is not subject to No. 9.11A. (WRC-19)
- 5.220 The use of the bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-15)
- 5.221 Stations of the mobile-satellite service in the frequency band 148-149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Djibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Eswatini, Ethiopia, the Russian Federation, Finland, France, Gabon, Georgia, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-19)
  - 5.226 The frequency 156.525 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service using digital selective calling (DSC). The conditions for the use of this frequency and the band 156.4875-156.5625 MHz are contained in Articles **31** and **52**, and in Appendix **18**.

The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency and the band 156.7625-156.8375 MHz are contained in Article **31** and Appendix **18**.

In the bands 156-156.4875 MHz, 156.5625-156.7625 MHz, 156.8375-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by the administration (see Articles **31** and **52**, and Appendix **18**).

Any use of frequencies in these bands by stations of other services to which they are allocated should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service.

However, the frequencies 156.8 MHz and 156.525 MHz and the frequency bands in which priority is given to the maritime mobile service may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations and taking into account current frequency usage and existing agreements. (WRC-07)

- **5.227** *Additional allocation:* the bands 156.4875-156.5125 MHz and 156.5375-156.5625 MHz are also allocated to the fixed and land mobile services on a primary basis. The use of these bands by the fixed and land mobile services shall not cause harmful interference to nor claim protection from the maritime mobile VHF radiocommunication service. (WRC-07)
- 5.228 The use of the frequency bands 156.7625-156.7875 MHz and 156.8125-156.8375 MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of automatic identification system (AIS) emissions of long-range AIS broadcast messages (Message 27, see the most recent version of Recommendation ITUR M.1371). With the exception of- AIS emissions, emissions in these frequency bands by systems operating in the maritime mobile service for communications shall not exceed 1 W. (WRC-12)

**5.228A** The frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz may be used by aircraft stations for the purpose of search and rescue operations and other safety-related communications. (WRC-12)

- **5.228B** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the fixed and land mobile services shall not cause harmful interference to, or claim protection from, the maritime mobile service. (WRC-12)
- **5.228F** The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of automatic identification system emissions from stations operating in the maritime mobile service. (WRC-12)
- 5.228AA The use of the frequency bands 161.9375-161.9625 MHz and 161.9875-162.0125 MHz by the maritime mobile-satellite (Earth-to-space) service is limited to the systems which operate in accordance with Appendix 18. (WRC-15)
- **5.228AB** The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (Earth-to-space) is limited to non-GSO satellite systems operating in accordance with Appendix **18**. (WRC-19)
- 5.228AC The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (space-to-Earth) is limited to non-GSO satellite systems operating in accordance with Appendix 18. Such use is subject to agreement obtained under No. 9.21 with respect to the terrestrial services in Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, the Russian Federation, the Syrian Arab Republic, the Dem. People's Rep. of Korea, South Africa and Viet Nam. (WRC-19)
- **5.247** *Additional allocation:* in Saudi Arabia, **Bahrain**, the United Arab Emirates, Jordan, Oman, Qatar and Syrian Arab Republic, the band 223-235 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
- **5.254** The bands 235-322 MHz and 335.4-399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under No. **9.21**, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations except for the additional allocation made in footnote No. **5.256A**. (WRC-03)
- 5.255 The bands 312-315 MHz (Earth-to-space) and 387-390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. 9.11A.
- **5.256** The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC-07)
- **5.257** The band 267-272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. **9.21**.
- **5.258** The use of the band 328.6-335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).
- 5.260A In the frequency band 399.9-400.05 MHz, the maximum e.i.r.p. of any emission of earth stations in the mobile-satellite service shall not exceed 5 dBW in any 4 kHz band and the maximum e.i.r.p. of each earth station in the mobile-satellite service shall not exceed 5 dBW in the whole 399.9-400.05 MHz frequency band. Until 22 November 2022, this limit shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2022, these limits shall apply to all systems within the mobile-satellite service operating in this frequency band.

In the frequency band 399.99-400.02 MHz, the e.i.r.p. limits as specified above shall apply after 22 November 2022 to all systems within the mobile-satellite service. Administrations are requested that their mobile-satellite service satellite links in the 399.99-400.02 MHz frequency band comply with the e.i.r.p. limits as specified above, after 22 November 2019. (WRC-19)

- **5.260B** In the frequency band 400.02-400.05 MHz, the provisions of No. <u>5.260A</u> are not applicable for telecommand uplinks within the mobile-satellite service. (WRC-19)
- 5.261 Emissions shall be confined in a band of  $\pm 25$  kHz about the standard frequency 400.1 MHz.

- 5.262 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Botswana, Colombia, Cuba, Egypt, the United Arab Emirates, Ecuador, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Oman, Uzbekistan, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Kyrgyzstan, Singapore, Somalia, Tajikistan, Chad, Turkmenistan and Ukraine, the band 400.05-401 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- **5.263** The band 400.15-401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.
- **5.264** The use of the band 400.15-401 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. The power flux-density limit indicated in Annex 1 of Appendix **5** shall apply until such time as a competent world radiocommunication conference revises it.
- 5.264A In the frequency band 401-403 MHz, the maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW in any 4 kHz band for geostationary systems and non-geostationary systems with an orbit of apogee equal or greater than 35 786 km.

The maximum e.i.r.p. of any emission of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW in any 4 kHz band for non-geostationary systems with an orbit of apogee lower than 35 786 km.

The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth explorationsatellite service shall not exceed 22 dBW for geostationary systems and non-geostationary systems with an orbit of apogee equal or greater than 35 786 km in the whole 401-403 MHz frequency band. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW for non-geostationary systems with an orbit of apogee lower than 35 786 km in the whole 401-403 MHz frequency band.

Until 22 November 2029, these limits shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2029, these limits shall apply to all systems within the meteorological-satellite service and the Earth exploration-satellite service operating in this frequency band. (WRC-19)

- 5.264B Non-geostationary satellite systems in the meteorological-satellite service and the Earth exploration-satellite service for which complete notification information has been received by the Radiocommunication Bureau before 28 April 2007 are exempt from provisions of No. <u>5.264A</u> and may continue to operate in the frequency band 401.898-402.522 MHz on a primary basis without exceeding a maximum e.i.r.p. level of 12 dBW. (WRC-19)
- 5.265 In the frequency band 403-410 MHz, Resolution 205 (Rev.WRC-19) applies. (WRC-19)
- **5.266** The use of the band 406-406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position-indicating radiobeacons (see also Article **31**). (WRC-07)
- **5.267** Any emission capable of causing harmful interference to the authorized uses of the band 406-406.1 MHz is prohibited.
- **5.268** Use of the band 410-420 MHz by the space research service is limited to space-to-space communication links with an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from transmitting stations of the space research service (space-to-space) in the frequency band 410-420 MHz shall not exceed  $-153 \text{ dB}(W/m^2)$  for  $0^\circ \le \delta \le 5^\circ$ , -153 + 0.077 ( $\delta 5$ ) dB(W/m<sup>2</sup>) for  $5^\circ \le \delta \le 70^\circ$  and  $-148 \text{ dB}(W/m^2)$  for  $70^\circ \le \delta \le 90^\circ$ , where  $\delta$  is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. In this frequency band, stations of the space research service (space-to-space) shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. No. **4.10** does not apply. (WRC-15)
- 5.276 Additional allocation: in Afghanistan, Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Djibouti, Egypt, the United Arab Emirates, Ecuador, Eritrea, Ethiopia, Greece, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Italy, Jordan, Kenya, Kuwait, Libya, Malaysia, Niger,

Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Switzerland, Thailand, Togo, Turkey and Yemen, the frequency band 430-440 MHz is also allocated to the fixed service on a primary basis and the frequency bands 430-435 MHz and 438-440 MHz are also allocated, except in Ecuador, to the mobile, except aeronautical mobile, service on a primary basis. (WRC-15)

- 5.279A The use of the frequency band 432-438 MHz by sensors in the Earth exploration-satellite service (active) shall be in accordance with Recommendation ITU-R RS.1260-2. Additionally, the Earth exploration-satellite service (active) in the frequency band 432-438 MHz shall not cause harmful interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the obligation of the Earth exploration-satellite service (active) to operate as a secondary service in accordance with Nos. 5.29 and 5.30. (WRC-19)
- 5.282 In the bands 435-438 MHz, 1 260-1 270 MHz, 2 400-2 450 MHz, 3 400-3 410 MHz (in Regions 2 and 3 only) and 5 650-5 670 MHz, the amateur-satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see <u>No. 5.43</u>). Administrations authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. 25.11. The use of the bands 1 260-1 270 MHz and 5 650-5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
- **5.286** The band 449.75-450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to agreement obtained under No. **9.21**.
- 5.286A The use of the bands 454-456 MHz and 459-460 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. (WRC-97)
- 5.286AA The frequency band 450-470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) see Resolution 224 (Rev.WRC-19). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)
- 5.287 Use of the frequency bands 457.5125-457.5875 MHz and 467.5125-467.5875 MHz by the maritime mobile service is limited to on-board communication stations. The characteristics of the equipment and the channelling arrangement shall be in accordance with Recommendation ITU-R M.1174-4. The use of these frequency bands in territorial waters is subject to the national regulations of the administration concerned. (WRC-19)
- **5.289** Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460-470 MHz and 1 690-1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
- 5.294 Additional allocation: in Saudi Arabia, Cameroon, Côte d'Ivoire, Egypt, Ethiopia, Israel, Libya, the Syrian Arab Republic, Chad and Yemen, the band 470-582 MHz is also allocated to the fixed service on a secondary basis. (WRC-12)
- 5.296 Additional allocation: in Albania, Germany, Angola, Saudi Arabia, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Burundi, Cameroon, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Eswatini. Finland, France, Gabon, Georgia, Ghana, Hungary, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malawi, Mali, Malta, Morocco, Mauritius, Mauritania, Moldova, Monaco, Mozambique, Namibia, Niger, Nigeria, Norway, Oman, Uganda, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, the Czech Republic, Romania, the United Kingdom, Rwanda, San Marino, Serbia, Sudan, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the frequency band 470-694 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting and programme-making. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-19)

- **5.300** *Additional allocation:* in Saudi Arabia, Cameroon, Egypt, United Arab Emirates, Israel, Jordan, Libya, Oman, Qatar, the Syrian Arab Republic, and Sudan, the band 582-790 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-15)
- **5.312A** In Region 1, the use of the band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution **760** (**Rev.WRC-19**). See also Resolution **224** (**Rev.WRC-19**). (WRC-19)
- 5.316B In Region 1, the allocation to the mobile, except aeronautical mobile, service in the frequency band 790-862 MHz is subject to agreement obtained under No. 9.21 with respect to the aeronautical radionavigation service in countries mentioned in No. 5.312. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that Agreement. Resolutions 224 (Rev.WRC-19) and 749 (Rev.WRC-19) shall apply, as appropriate. (WRC-19)
- 5.317A The parts of the frequency band 698-960 MHz in Region 2 and the frequency bands 694-790 MHz in Region 1 and 790-960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) see Resolutions 224 (Rev.WRC-19), 760 (Rev.WRC-19) and 749 (Rev.WRC-19), where applicable. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-19)
- **5.327A** The use of the frequency band 960-1 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **417 (Rev.WRC-15)**. (WRC-15)
- 5.328 The use of the band 960-1 215 MHz by the aeronautical radionavigation service is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated ground-based facilities. (WRC-2000)
- 5.328A Stations in the radionavigation-satellite service in the band 1 164-1 215 MHz shall operate in accordance with the provisions of Resolution 609 (Rev.WRC--07) and shall not claim protection from stations in the aeronautical radionavigation service in the band 960-1 215 MHz. <u>No. 5.43A</u> does not apply. The provisions of No. 21.18 shall apply. (WRC-07)
- 5.328AA The frequency band 1 087.7-1 092.3 MHz is also allocated to the aeronautical mobilesatellite (R) service (Earth-to-space) on a primary basis, limited to the space station reception of Automatic Dependent Surveillance-Broadcast (ADS-B) emissions from aircraft transmitters that operate in accordance with recognized international aeronautical standards. Stations operating in the aeronautical mobile-satellite (R) service. Resolution 425 (Rev.WRC-19) shall apply. (WRC-19)
- **5.328B** The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz by systems and networks in the radionavigation-satellite service for which complete coordination or notification information, as appropriate, is received by the Radiocommunication Bureau after 1 January 2005 is subject to the application of the provisions of Nos. **9.12**, **9.12A** and **9.13**. Resolution **610** (**WRC-03**) shall also apply; however, in the case of radionavigation-satellite service (space-to-space) networks and systems, Resolution **610** (**WRC-03**) shall only apply to transmitting space stations. In accordance with No. <u>**5.329A**</u>, for systems and networks in the radionavigation-satellite service (space-to-space) in the bands 1 215-1 300 MHz and 1 559-1 610 MHz, the provisions of Nos. **9.7**, **9.12**, **9.12A** and **9.13** shall only apply with respect to other systems and networks in the radionavigation-satellite service (space-to-space). (WRC-07)
- **5.329** Use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. <u>5.331</u>. Furthermore, the use of the radionavigation-satellite service in the band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. <u>No. 5.43</u> shall not apply in respect of the radiolocation service. Resolution **608** (**Rev.WRC-19**) shall apply. (WRC-19)
- 5.329A Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigation-satellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
- 5.330 Additional allocation: in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Nepal, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Somalia,

Sudan, South Sudan, Chad, Togo and Yemen, the band 1 215-1 300 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)

- 5.331 Additional allocation: in Algeria, Germany, Saudi Arabia, Australia, Australia, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, the Kingdom of the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Turkey, Venezuela and Viet Nam, the frequency band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the frequency band 1 240-1 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-19)
- **5.332** In the band 1 215-1 260 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigation-satellite- service and other services allocated on a primary basis. (WRC-2000)
- **5.335A** In the band 1 260-1 300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis. (WRC-2000)
- **5.337** The use of the bands 1 300-1 350 MHz, 2 700-2 900 MHz and 9 000-9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
- 5.337A The use of the band 1 300-1 350 MHz by earth stations in the radionavigation-satellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
- **5.338A** In the frequency bands 1 350-1 400 MHz, 1 427-1 452 MHz, 22.55-23.55 GHz, 24.25-27.5 GHz, 30-31.3 GHz, 49.7-50.2 GHz, 50.4-50.9 GHz, 51.4-52.6 GHz, 81-86 GHz and 92-94 GHz, Resolution **750 (Rev.WRC-19)** applies. (WRC-19)
- **5.339** The bands 1 370-1 400 MHz, 2 640-2 655 MHz, 4 950-4 990 MHz and 15.20-15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.

5.340	All emissions are prohibited in the following bands:	
	1 400-1 427 MHz,	
	2 690-2 700 MHz,	except those provided for by No. 5.422,
	10.68-10.7 GHz,	except those provided for by No. 5.483,
	15.35-15.4 GHz,	except those provided for by No. 5.511,
	23.6-24 GHz,	
	31.3-31.5 GHz,	
	31.5-31.8 GHz,	in Region 2,
	48.94-49.04 GHz,	from airborne stations
	50.2-50.4 GHz <sup>4</sup> ,	
	52.6-54.25 GHz,	
	86-92 GHz,	
	100-102 GHz,	
	109.5-111.8 GHz,	
	114.25-116 GHz,	
	148.5-151.5 GHz,	

<sup>&</sup>lt;sup>4</sup> 5.340.1 The allocation to the Earth exploration-satellite service (passive) and the space research service (passive) in the band 50.2-50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97)

164-167 GHz, 182-185 GHz, 190-191.8 GHz, 200-209 GHz, 226-231.5 GHz, 250-252 GHz. (WRC-03)

- **5.341** In the bands 1 400-1 727 MHz, 101-120 GHz and 197-220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.
- 5.341A In Region 1, the frequency bands 1 427-1 452 MHz and 1 492-1 518 MHz are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-15). This identification does not preclude the use of these frequency bands by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. 9.21 with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. 5.342. (WRC-15)
- 5.345 Use of the frequency band 1 452-1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (Rev.WRC-19). (WRC-19)
- 5.346 In Algeria, Angola, Saudi Arabia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kenya, Kuwait, Lesotho, Lebanon, Liberia, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Palestine <sup>5</sup>, Qatar, Dem. Rep. of the Congo, Rwanda, Senegal, Seychelles, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Zambia, and Zimbabwe, the frequency band 1 452-1 492 MHz is identified for use by administrations listed above wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-15). This identification does not preclude the use of this frequency band by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of this frequency band for the implementation of IMT is subject to agreement obtained under No. 5.342. See also Resolution 761 (WRC-19). (WRC-19)
- 5.348 The use of the band 1 518-1 525 MHz by the mobile-satellite service is subject to coordination under No. 9.11A. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. 5.43A does not apply. (WRC-03)
- 5.348A In the band 1 518-1 525 MHz, the coordination threshold in terms of the power flux-density levels at the surface of the Earth in application of No. 9.11A for space stations in the mobile-satellite (space-to-Earth) service, with respect to the land mobile service use for specialized mobile radios or used in conjunction with public switched telecommunication networks (PSTN) operating within the territory of Japan, shall be 150 dB(W/m<sup>2</sup>) in any 4 kHz band for all angles of arrival, instead of those given in Table 5-2 of Appendix 5. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from stations in the mobile service in the territory of Japan. No. 5.43A does not apply. (WRC-03)
- **5.348B** In the band 1 518-1 525 MHz, stations in the mobile-satellite service shall not claim protection from aeronautical mobile telemetry stations in the mobile service in the territory of the United States (see Nos. **5.343** and **5.344**) and in the countries listed in No. **5.342**. No. <u>No. **5.43A**</u> does not apply. (WRC-03)
- **5.349** Different category of service: in Saudi Arabia, Azerbaijan, **Bahrain**, Cameroon, Egypt, Iran (Islamic Republic of), Iraq, Israel, Kazakhstan, Kuwait, Lebanon, North Macedonia, Morocco, Qatar, Syrian Arab Republic, Kyrgyzstan, Turkmenistan and Yemen, the allocation of the frequency band 1 525-1 530 MHz to the mobile, except aeronautical mobile, service is on a primary basis (see <u>No. **5.33**</u>). (WRC-19)

<sup>&</sup>lt;sup>5</sup> The use by Palestine of the allocation to the mobile service in the frequency band 1 452- 1 492 MHz identified for IMT is noted, pursuant to Resolution 99 (Rev. Busan, 2014) and taking into account the Israeli-Palestinian Interim Agreement of 28 September 1995.

- **5.351** The bands 1 525-1 544 MHz, 1 545-1 559 MHz, 1 626.5-1 645.5 MHz and 1 646.5-1 660.5 MHz shall not be used for feeder links of any service. In exceptional circumstances, however, an earth station at a specified fixed point in any of the mobile-satellite services may be authorized by an administration to communicate via space stations using these bands.
- **5.351A** For the use of the bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 MHz and 2 670-2 690 MHz by the mobile-satellite service, see Resolutions **212 (Rev.WRC-07)** <sup>6</sup> and **225 (Rev.WRC-07)** <sup>7</sup>. (WRC-07)
- 5.352A In the frequency band 1 525-1 530 MHz, stations in the mobile-satellite service, except stations in the maritime mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed service in Algeria, Saudi Arabia, Egypt, Guinea, India, Israel, Italy, Jordan, Kuwait, Mali, Morocco, Mauritania, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Viet Nam and Yemen notified prior to 1 April 1998. (WRC-19)
- 5.353A In applying the procedures of Section II of Article 9 to the mobile-satellite service in the bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (WRC-2000)<sup>8</sup> shall apply.) (WRC-2000)
- **5.354** The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the mobile-satellite services is subject to coordination under No. **9.11A**.
- 5.355 Additional allocation: in Bahrain, Bangladesh, Congo (Rep. of the), Djibouti, Egypt, Eritrea, Iraq, Israel, Kuwait, Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the bands 1 540-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a secondary basis. (WRC-12)
- **5.356** The use of the band 1 544-1 545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article **31**).
- 5.357A In applying the procedures of Section II of Article 9 to the mobile-satellite service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article 44. Aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44 shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article 44. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution 222 (Rev.WRC--12) shall apply.) (WRC-12)
- 5.359 Additional allocation: in Germany, Saudi Arabia, Armenia, Azerbaijan, Belarus, Cameroon, the Russian Federation, Georgia, Guinea, Guinea-Bissau, Jordan, Kazakhstan, Kuwait, Lithuania, Mauritania, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Tajikistan, Tunisia, Turkmenistan and Ukraine, the frequency bands 1 550-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to make all practicable efforts to avoid the implementation of new fixed-service stations in these frequency bands. (WRC-19)
- **5.364** The use of the band 1 610-1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination-satellite service (Earth-to-space) is subject to coordination under No. **9.11A**. A mobile

<sup>&</sup>lt;sup>6</sup> Note by the Secretariat: This Resolution was revised by WRC-15.

<sup>&</sup>lt;sup>7</sup> Note by the Secretariat: This Resolution was revised by WRC-12.

<sup>&</sup>lt;sup>8</sup> Note by the Secretariat: This Resolution was revised by WRC-07 and WRC-12.

earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of -15 dB(-W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. <u>5.366</u> (to which No. **4.10** applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile earth station shall not exceed -3 dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. <u>5.366</u> and stations in the fixed service operating in accordance with the provisions of No. <u>5.359</u>. Administrations responsible for the coordination of mobile-satellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. <u>5.366</u>.

- **5.365** The use of the band 1 613.8-1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under No. **9.11A**.
- **5.366** The band 1 610-1 626.5 MHz is reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities. Such satellite use is subject to agreement obtained under No. 9.21.
- **5.367** Additional allocation: The frequency band 1 610-1 626.5 MHz is also allocated to the aeronautical mobilesatellite (R) service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-12)
- **5.368** The provisions of No. **4.10** do not apply with respect to the radiodetermination-satellite and mobile-satellite services in the frequency band 1 610-1 626.5 MHz. However, No. **4.10** applies in the frequency band 1 610-1 626.5 MHz with respect to the aeronautical radionavigation-satellite service when operating in accordance with No. **5.366**, the aeronautical mobile satellite (R) service when operating in accordance with No. **5.367**, and in the frequency band 1 621.35-1 626.5 MHz with respect to the maritime mobile-satellite service when used for GMDSS. (WRC-19)
- **5.371** Additional allocation: in Region 1, the band 1 610-1 626.5 MHz (Earth-to-space) is also allocated to the radiodetermination-satellite service on a secondary basis, subject to agreement obtained under No. **9.21**. (WRC-12)
- **5.372** Harmful interference shall not be caused to stations of the radio astronomy service using the frequency band 1 610.6-1 613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (No. **29.13** applies). The equivalent power flux-density (epfd) produced in the frequency band 1 610.6-1 613.8 MHz by all space stations of a non-geostationary-satellite system in the mobile-satellite service (space-to-Earth) operating in frequency band 1 613.8-1 626.5 MHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, using the methodology given in Recommendation ITU-R M.1583-1, and the radio astronomy antenna pattern described in Recommendation ITU-R RA.1631-0. (WRC-19)
- **5.373** Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose additional constraints on earth stations operating in the maritime mobile-satellite service or maritime earth stations of the radiodetermination-satellite service operating in accordance with the Radio Regulations in the frequency band 1 610-1 621.35 MHz or on earth stations operating in the maritime mobile-satellite service operating in accordance with the Radio Regulations in the frequency band 1 610-1 621.35 MHz or on earth stations operating in the maritime mobile-satellite service operating in accordance with the Radio Regulations in the frequency band 1 626.5-1 660.5 MHz, unless otherwise agreed between the notifying administrations. (WRC-19)
- **5.373A** Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose constraints on the assignments of earth stations of the mobile-satellite service (Earth-to-space) and the radiodetermination-satellite service (Earth-to-space) in the frequency band 1 621.35-1 626.5 MHz in networks for which complete coordination information has been received by the Radiocommunication Bureau before 28 October 2019. (WRC-19)
- 5.374 Mobile earth stations in the mobile-satellite service operating in the bands 1 631.5-1 634.5 MHz and 1 656.5-1 660 MHz shall not cause harmful interference to stations in the fixed service operating in the countries listed in No. 5.359. (WRC-97)
- **5.375** The use of the band 1 645.5-1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress and safety communications (see Article **31**).
- **5.376** Transmissions in the band 1 646.5-1 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorized when such transmissions are used to extend or supplement the aircraft-to-satellite links.

- **5.376A** Mobile earth stations operating in the band 1 660-1 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)
- **5.379A** Administrations are urged to give all practicable protection in the band 1 660.5-1 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.4-1 668.4 MHz as soon as practicable.
- **5.379B** The use of the band 1 668-1 675 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. In the band 1 668-1 668.4 MHz, Resolution **904** (WRC-07) shall apply. (WRC-07)
- **5.379C** In order to protect the radio astronomy service in the band 1 668-1 670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite service operating in this band shall not exceed -181 dB(W/m<sup>2</sup>) in 10 MHz and -194 dB(W/m<sup>2</sup>) in any 20 kHz at any radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
- **5.379D** For sharing of the band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution **744 (Rev.WRC-07)** shall apply. (WRC-07)
- **5.379E** In the band 1 668.4-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1 668.4-1 675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)
- **5.380A** In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)
- 5.382 Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, the Russian Federation, Guinea, Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, North Macedonia, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Turkmenistan, Ukraine and Yemen, the allocation of the frequency band 1 690-1 700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33), and in the Dem. People's Rep. of Korea, the allocation of the frequency band 1 690-1 700 MHz to the fixed service is on a primary basis (see No. 5.33) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC-19)
- 5.384A The frequency bands 1 710-1 885 MHz, 2 300-2 400 MHz or 2 500-2 690 MHz, and portions thereof, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution 223 (Rev.WRC-15). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-15)
- **5.385** *Additional allocation:* the band 1 718.8-1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)
- 5.388 The frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications (IMT). Such use does not preclude the use of these frequency bands by other services to which they are allocated. The frequency bands should be made available for IMT in accordance with Resolution 212 (Rev.WRC-15) (see also Resolution 223 (Rev.WRC-15)). (WRC-15)
- 5.388A In Regions 1 and 3, the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz and, in Region 2, the bands 1 885-1 980 MHz and 2 110-2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications (IMT), in accordance with Resolution 221 (Rev.WRC-07). Their use by IMT applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-12)

- 5.388B In Algeria, Saudi Arabia, Bahrain, Benin, Burkina Faso, Cameroon, Comoros, Côte d'Ivoire, China, Cuba, Djibouti, Egypt, United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, India, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Lebanon, Libya, Mali, Morocco, Mauritania, Nigeria, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, Senegal, Singapore, Sudan, South Sudan, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, for the purpose of protecting fixed and mobile services, including IMT mobile stations, in their territories from co-channel interference, a high altitude platform station (HAPS) operating as an IMT base station in neighbouring countries, in the frequency bands referred to in No. <u>5.388A</u>, shall not exceed a co-channel power flux-density of −127 dB(W/(m2 · MHz)) at the Earth's surface outside a country's borders unless explicit agreement of the affected administration is provided at the time of the notification of HAPS. (WRC-19)
- **5.389A** The use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716** (**Rev.WRC--2000**) <sup>9</sup>. (WRC-07)
- **5.389E** The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.
- 5.391 In making assignments to the mobile service in the frequency bands 2 025-2 110 MHz and 2 200-2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154-0, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-15)
- 5.392 Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary satellites, in the space research, space operations and Earth exploration-satellite services in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other space-to-space transmissions of those services and in those bands between geostationary and non-geostationary satellites.
- **5.398** In respect of the radiodetermination-satellite service in the band 2 483.5-2 500 MHz, the provisions of No. **4.10** do not apply.
- 5.402 The use of the band 2 483.5-2 500 MHz by the mobile-satellite and the radiodetermination-satellite services is subject to the coordination under No. 9.11A. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2 483.5-2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990-5 000 MHz band allocated to the radio astronomy service worldwide.
- 5.410 The band 2 500-2 690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. 9.21. No. 9.21 does not apply to tropospheric scatter links situated entirely outside Region 1. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to avoid directing the antennas of these links towards the geostationary-satellite orbit. (WRC-12)
- 5.413 In the design of systems in the broadcasting-satellite service in the bands between 2 500 MHz and 2 690 MHz, administrations are urged to take all necessary steps to protect the radio astronomy service in the band 2 690-2 700 MHz.
- **5.416** The use of the band 2 520-2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. **9.21**. The provisions of No. **9.19** shall be applied by administrations in this band in their bilateral and multilateral negotiations. (WRC-07)
- 5.418 Additional allocation: in India, the frequency band 2 535-2 655 MHz is also allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution 528 (Rev.WRC-19). The provisions of No. 5.416 and Table 21-4 of Article 21 do not apply to this additional allocation. Use of non-geostationary-satellite systems in the broadcasting-satellite service (sound) is subject to Resolution 539 (Rev.WRC-19). Geostationary broadcasting-satellite service (sound) systems for which complete Appendix

<sup>&</sup>lt;sup>9</sup> Note by the Secretariat: This Resolution was revised by WRC-12.

**4** coordination information has been received after 1 June 2005 are limited to systems intended for national coverage. The power flux-density at the Earth's surface produced by emissions from a geostationary broadcasting-satellite service (sound) space station operating in the frequency band 2 630-2 655 MHz, and for which complete Appendix **4** coordination information has been received after 1 June 2005, shall not exceed the following limits, for all conditions and for all methods of modulation:

$-130 \text{ dB}(\text{W/(m2 \cdot MHz)})$	for $0^\circ \le \theta \le 5^\circ$
$-130 + 0.4 (\theta - 5) dB(W/(m2 \cdot M))$	(Hz)) for $5^\circ < \theta \le 25^\circ$
-122 dB(W/(m2 · MHz))	for $25^\circ < \theta \le 90^\circ$

where  $\theta$  is the angle of arrival of the incident wave above the horizontal plane, in degrees. These limits may be exceeded on the territory of any country whose administration has so agreed. As an exception to the limits above, the pfd value of  $-122 \text{ dB}(W/(m2 \cdot MHz))$  shall be used as a threshold for coordination under No. **9.11** in an area of 1 500 km around the territory of the administration notifying the broadcasting-satellite service (sound) system.

In addition, an administration listed in this provision shall not have simultaneously two overlapping frequency assignments, one under this provision and the other under No. 5.416 for systems for which complete Appendix 4 coordination information has been received after 1 June 2005. (WRC-19)

- 5.418B Use of the band 2 630-2 655 MHz by non--geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. 5.418, for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. 9.12. (WRC-03)
- **5.418C** Use of the band 2 630-2 655 MHz by geostationary-satellite networks for which complete Appendix 4 coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. 9.13 with respect to non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. <u>5.418</u> and No. 22.2 does not apply. (WRC-03)
- 5.422 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Brunei Darussalam, Congo (Rep. of the), Côte d'Ivoire, Cuba, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea, Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Mauritania, Mongolia, Montenegro, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, the Dem. Rep. of the Congo, Romania, Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine and Yemen, the band 2 690-2 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-12)
- **5.423** In the band 2 700-2 900 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the aeronautical radionavigation service.
- **5.424A** In the band 2 900-3 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
- 5.425 In the band 2 900-3 100 MHz, the use of the shipborne interrogator-transponder (SIT) system shall be confined to the sub-band 2 930 -2 950 MHz.
- **5.426** The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service is limited to ground-based radars.
- **5.427** In the bands 2 900-3 100 MHz and 9 300-9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. **4.9**.
- 5.429 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Benin, Brunei Darussalam, Cambodia, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Egypt, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, New Zealand, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Sudan and Yemen, the frequency band 3 300-3 400 MHz is also allocated to the fixed and mobile services on a primary basis. New Zealand and the countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-19)

- 5.429A Additional allocation: in Angola, Benin, Botswana, Burkina Faso, Burundi, Djibouti, Eswatini, Ghana, Guinea, Guinea-Bissau, Lesotho, Liberia, Malawi, Mauritania, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. Stations in the mobile service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-19)
- 5.429B In the following countries of Region 1 south of 30° parallel north: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Congo (Rep. of the), Côte d'Ivoire, Egypt, Eswatini, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Malawi, Mauritania, Mozambique, Namibia, Niger, Nigeria, Uganda, the Dem. Rep. of the Congo, Rwanda, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). The use of this frequency band shall be in accordance with Resolution 223 (Rev.WRC-15). The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)
- 5.430A The allocation of the frequency band 3 400-3 600 MHz to the mobile, except aeronautical mobile, service is subject to agreement obtained under No. 9.21. This frequency band is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The provisions of Nos. 9.17 and 9.18 shall also apply in the coordination phase. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed -154.5 dB(W/(m<sup>2</sup> . 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station) and with the assistance of the Bureau if so requested. In case of disagreement, calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-15)
- **5.436** Use of the frequency band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics intra-communication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **424** (WRC-15). (WRC-15)
- 5.437 Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4 200-4 400 MHz on a secondary basis. (WRC-15)
- **5.438** Use of the frequency band 4 200-4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. (WRC-15)
- **5.440** The standard frequency and time signal-satellite service may be authorized to use the frequency 4 202 MHz for space-to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of  $\pm 2$  MHz of these frequencies, subject to agreement obtained under No. 9.21.
- 5.441 The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite service shall be in accordance with the provisions of Appendix 30B. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service.

not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- **5.443AA** In the frequency bands 5 000-5 030 MHz and 5 091-5 150 MHz, the aeronautical mobile-satellite (R) service is subject to agreement obtained under No. **9.21**. The use of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)
- **5.443B** In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earth's surface in the frequency band 5 030-5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the frequency band 5 010-5 030 MHz shall not exceed -124.5 dB(W/m2) in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the frequency band 4 990-5 000 MHz, radionavigation-satellite service systems operating in the frequency band 5 010-5 030 MHz defined in Resolution **741 (Rev.WRC-15)**. (WRC-15)
- **5.443C** The use of the frequency band 5 030-5 091 MHz by the aeronautical mobile (R) service is limited to internationally standardized aeronautical systems. Unwanted emissions from the aeronautical mobile (R) service in the frequency band 5 030-5 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 010-5 030 MHz band. Until such time that an appropriate value is established in a relevant ITU-R Recommendation, the e.i.r.p. density limit of -75 dBW/MHz in the frequency band 5 010-5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC-12)
- **5.443D** In the frequency band 5 030-5 091 MHz, the aeronautical mobile-satellite (R) service is subject to coordination under No. **9.11A**. The use of this frequency band by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)
- **5.444** The frequency band 5 030-5 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision approach and landing. In the frequency band 5 030-5 091 MHz, the requirements of this system shall have priority over other uses of this frequency band. For the use of the frequency band 5 091-5 150 MHz, No. <u>5.444A</u> and Resolution **114** (**Rev.WRC-15**) apply. (WRC-15)
- 5.444A The use of the allocation to the fixed-satellite service (Earth-to-space) in the frequency band 5 091-5 150 MHz is limited to feeder links of non-geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A. The use of the frequency band 5 091-5 150 MHz by feeder links of non-geostationary satellite systems in the mobile-satellite service shall be subject to application of Resolution 114 (Rev.WRC-15). Moreover, to ensure that the aeronautical radionavigation service is protected from harmful interference, coordination is required for feeder-link earth stations of the non-geostationary satellite systems in the mobile-satellite service which are separated by less than 450 km from the territory of an administration operating ground stations in the aeronautical radionavigation service. (WRC-15)
- 5.444B The use of the frequency band 5 091-5 150 MHz by the aeronautical mobile service is limited to:
  - systems operating in the aeronautical mobile (R) service and in accordance with international aeronautical standards, limited to surface applications at airports. Such use shall be in accordance with Resolution 748 (Rev.WRC-19);
  - aeronautical telemetry transmissions from aircraft stations (see No. 1.83) in accordance with Resolution 418 (Rev.WRC-19). (WRC-19)
- **5.446A** The use of the bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution **229 (Rev.WRC-19)**. (WRC-19)
- 5.446B In the band 5 150-5 250 MHz, stations in the mobile service shall not claim protection from earth stations in the fixed-satellite service. No. 5.43A does not apply to the mobile service with respect to fixed-satellite service earth stations. (WRC-03)

- 5.446C Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Iraq, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan, South Sudan and Tunisia), the frequency band 5 150-5 250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (Rev.WRC-19). These stations shall not claim protection from other stations operating in accordance with Article 5. No. 5.43A does not apply. (WRC-19)
- 5.447A The allocation to the fixed-satellite service (Earth-to-space) in the band 5 150-5 250 MHz is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to coordination under No. 9.11A.
- 5.447B Additional allocation: the band 5 150-5 216 MHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to provisions of No. 9.11A. The power flux-density at the Earth's surface produced by space stations of the fixed-satellite service operating in the space-to-Earth direction in the band 5 150-5 216 MHz shall in no case exceed –164 dB(W/m<sup>2</sup>) in any 4 kHz band for all angles of arrival.
- 5.447C Administrations responsible for fixed-satellite service networks in the band 5 150-5 250 MHz operated under Nos. 5.447A and 5.447B shall coordinate on an equal basis in accordance with No. 9.11A with administrations responsible for non-geostationary satellite- networks operated under No. 5.446 and brought into use prior to 17 November 1995. Satellite networks operated under No. 5.446 brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixed-satellite service operated under Nos. 5.447A.
- 5.447D The allocation of the band 5 250-5 255 MHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
- 5.447F In the frequency band 5 250-5 350 MHz,) stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). The radiolocation service, the Earth exploration-satellite service (active) and the space research service (active) shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution 229 (Rev.WRC-19). (WRC-19)
- 5.448A The Earth exploration-satellite (active) and space research (active) services in the frequency band 5 250-5 350 MHz shall not claim protection from the radiolocation service. <u>No. 5.43A</u> does not apply. (WRC-03)
- 5.448B The Earth exploration-satellite service (active) operating in the band 5 350-5 570 MHz and space research service (active) operating in the band 5 460-5 570 MHz shall not cause harmful interference to the aeronautical radionavigation service in the band 5 350-5 460 MHz, the radionavigation service in the band 5 460-5 470 MHz and the maritime radionavigation service in the band 5 470-5 570 MHz. (WRC-03)
- **5.448C** The space research service (active) operating in the band 5 350-5 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03)
- 5.448D In the frequency band 5 350-5 470 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the aeronautical radionavigation service operating in accordance with No. <u>5.449</u>. (WRC-03)
- **5.449** The use of the band 5 350-5 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.
- **5.450A** In the frequency band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. The radiodetermination services shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution **229** (**Rev.WRC-19**). (WRC-19)
- **5.450B** In the frequency band 5 470-5 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 600-5 650 MHz, shall not cause harmful interference to, nor claim protection from, radar systems in the maritime radionavigation service. (WRC-03)
- **5.452** Between 5 600 MHz and 5 650 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the maritime radionavigation service.
- 5.453 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guinea, Equatorial Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Madagascar, Malaysia, Niger, Nigeria, Oman, Uganda, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Sri Lanka, Tanzania, Chad, Thailand, Togo, Viet Nam and Yemen, the band 5 650-5 850 MHz is also allocated to the fixed and mobile services on a primary basis. In this case, the provisions of Resolution 229 (Rev.WRC-12) do not apply. In addition, in Afghanistan, Angola, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Dem. Rep. of the Congo, Fiji, Ghana, Kiribati, Lesotho, Malawi, Maldives, Mauritius, Micronesia, Mongolia, Mozambique, Myanmar, Namibia, Nauru, New Zealand, Papua New Guinea, Rwanda, Solomon Islands, South Sudan, South Africa, Tonga, Vanuatu, Zambia and Zimbabwe, the band 5 725-5 850 MHz is allocated to the fixed service on a primary basis, and stations operating in the fixed service shall not cause harmful interference to and shall not claim protection from other primary services in the frequency band. (WRC-19)
- 5.457A In the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may communicate with space stations of the fixed-satellite service. Such use shall be in accordance with Resolution 902 (Rev.WRC-03). In the frequency band 5 925-6 425 MHz, earth stations located on board vessels and communicating with space stations of the fixed-satellite service may employ transmit antennas with minimum diameter of 1.2 m and operate without prior agreement of any administration if located at least 330 km away from the low-water mark as officially recognized by the coastal State. All other provisions of Resolution 902 (WRC-03) shall apply. (WRC-15)
- 5.457B In the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution 902 (WRC-03) in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Jordan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, in the maritime mobile-satellite service on a secondary basis. Such use shall be in accordance with Resolution 902 (WRC-03). (WRC-15)
- 5.458 In the band 6 425-7 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 075-7 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth exploration-satellite (passive) and space research (passive) services in their future planning of the bands 6 425-7 075 MHz and 7 075-7 250 MHz.
- **5.458A** In making assignments in the band 6 700-7 075 MHz to space stations of the fixed-satellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650-6 675.2 MHz from harmful interference from unwanted emissions.
- 5.458B The space-to-Earth allocation to the fixed-satellite service in the band 6 700-7 075 MHz is limited to feeder links for non-geostationary satellite systems of the mobile-satellite service and is subject to coordination under No. 9.11A. The use of the band 6 700-7 075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile-satellite service is not subject to No. 22.2.
- 5.460 No emissions from space research service (Earth-to-space) systems intended for deep space shall be effected in the frequency band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and <u>No. 5.43A</u> does not apply. (WRC-15)
- 5.460A The use of the frequency band 7 190-7 250 MHz (Earth-to-space) by the Earth exploration-satellite service shall be limited to tracking, telemetry and command for the operation of spacecraft. Space stations operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 250 MHz shall not claim protection from existing and future stations in the fixed and mobile services, and No. 5.43A does not apply. No. 9.17 applies. Additionally, to ensure protection of the existing and future deployment of fixed and mobile services, the location of earth stations supporting spacecraft in the Earth exploration-satellite service in non-geostationary orbits or geostationary orbit shall maintain a separation distance of at least 10 km and 50 km, respectively, from the respective border(s) of neighbouring countries, unless a shorter distance is otherwise agreed between the corresponding administrations. (WRC-15)
- 5.460B Space stations on the geostationary orbit operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the space research service, and <u>No. 5.43A</u> does not apply. (WRC-15)

- **5.461** Additional allocation: the bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**.
- 5.461A The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary-satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
- **5.461B** The use of the band 7 750-7 900 MHz by the meteorological-satellite service (space-to-Earth) is limited to non-geostationary satellite systems. (WRC-12)
- **5.461AA** The use of the frequency band 7 375-7 750 MHz by the maritime mobile-satellite service is limited to geostationary-satellite networks. (WRC-15)
- 5.461AB In the frequency band 7 375-7 750 MHz, earth stations in the maritime mobile-satellite service shall not claim protection from, nor constrain the use and development of, stations in the fixed and mobile, except aeronautical mobile, services. <u>No. 5.43A</u> does not apply. (WRC-15)
- **5.462A** In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the Earth exploration-satellite service using geostationary satellites shall not produce a power flux-density in excess of the following values for angles of arrival (θ), without the consent of the affected administration:

$-135 \text{ dB}(\text{W/m}^2)$ in a 1 MHz band	for $0 \le \theta < 5^{\circ}$	
$-135$ + 0.5 ( $\theta$ – 5) dB(W/m^2) in a 1 MHz band	for $5 \le \theta < 25^{\circ}$	
$-125 \text{ dB}(W/m^2)$ in a 1 MHz band	for $25 \le \Theta \le 90^{\circ}$	(WRC-12)

- 5.463 Aircraft stations are not permitted to transmit in the band 8 025-8 400 MHz. (WRC-97)
- 5.465 In the space research service, the use of the band 8 400-8 450 MHz is limited to deep space.
- 5.468 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burundi, Cameroon, China, Congo (Rep. of the), Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guyana, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Senegal, Singapore, Somalia, Sudan, Chad, Togo, Tunisia and Yemen, the frequency band 8 500-8 750 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-19)
- 5.469A In the band 8 550-8 650 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. (WRC-97)
- **5.470** The use of the band 8 750-8 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.
- 5.471 Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, Egypt, the United Arab Emirates, France, Greece, Indonesia, Iran (Islamic Republic of), Libya, the Netherlands, Qatar and Sudan, the frequency bands 8 825-8 850 MHz and 9 000-9 200 MHz are also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars only. (WRC-15)
- 5.472 In the bands 8 850-9 000 MHz and 9 200-9 225 MHz, the maritime radionavigation service is limited to shorebased radars.
- **5.473A** In the band 9 000-9 200 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, systems identified in No. <u>5.337</u> operating in the aeronautical radionavigation service, or radar systems in the maritime radionavigation service operating in this band on a primary basis in the countries listed in No. <u>5.471</u>. (WRC-07)
- **5.474** In the band 9 200-9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article **31**).

- 5.474A The use of the frequency bands 9 200-9 300 MHz and 9 900-10 400 MHz by the Earth exploration-satellite service (active) is limited to systems requiring necessary bandwidth greater than 600 MHz that cannot be fully accommodated within the frequency band 9 300-9 900 MHz. Such use is subject to agreement to be obtained under No. 9.21 from Algeria, Saudi Arabia, Bahrain, Egypt, Indonesia, Iran (Islamic Republic of), Lebanon and Tunisia. An administration that has not replied under No. 9.52 is considered as not having agreed to the coordination request. In this case, the notifying administration of the satellite system operating in the Earth exploration-satellite service (active) may request the assistance of the Bureau under Sub-Section IID of Article 9. (WRC-15)
- 5.474B Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2066-0. (WRC-15)
- 5.474C Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2065-0. (WRC-15)
- 5.474D Stations in the Earth exploration-satellite service (active) shall not cause harmful interference to, or claim protection from, stations of the maritime radionavigation and radiolocation services in the frequency band 9 200-9 300 MHz, the radionavigation and radiolocation services in the frequency band 9 900-10 000 MHz and the radiolocation service in the frequency band 10.0- 10.4 GHz. (WRC-15)
- **5.475** The use of the band 9 300-9 500 MHz by the aeronautical radionavigation service is limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
- **5.475A** The use of the band 9 300-9 500 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz that cannot be fully accommodated within the 9 500-9 800 MHz band. (WRC-07)
- **5.475B** In the band 9 300-9 500 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, radars operating in the radionavigation service in conformity with the Radio Regulations. Ground-based radars used for meteorological purposes have priority over other radiolocation uses. (WRC-07)
- **5.476A** In the band 9 300-9 800 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from, stations of the radionavigation and radiolocation services. (WRC-07)
- 5.477 Different category of service: in Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Japan, Jordan, Kuwait, Lebanon, Liberia, Malaysia, Nigeria, Oman, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Trinidad and Tobago, and Yemen, the allocation of the frequency band 9 800-10 000 MHz to the fixed service is on a primary basis (see No. 5.33). (WRC-15)
- 5.478A The use of the band 9 800-9 900 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated within the 9 300-9 800 MHz band. (WRC-07)
- 5.478B In the band 9 800-9 900 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from stations of the fixed service to which this band is allocated on a secondary basis. (WRC-07)
- **5.479** The band 9 975-10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by weather radars.
- 5.482 In the band 10.6-10.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed -3 dBW. This limit may be exceeded, subject to agreement obtained under No. 9.21. However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic Republic of), Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan, Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan, Tunisia, Turkmenistan and Viet

Nam, this restriction on the fixed and mobile, except aeronautical mobile, services is not applicable. (WRC-07)

- **5.482A** For sharing of the band 10.6-10.68 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution **751 (WRC-07)** applies. (WRC-07)
- 5.483 Additional allocation: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, China, Colombia, Korea (Rep. of), Egypt, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, Mongolia, Qatar, Kyrgyzstan, the Dem. People's Rep. of Korea, Tajikistan, Turkmenistan and Yemen, the frequency band 10.68-10.7 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-19)
- **5.484** In Region 1, the use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service.
- 5.484A The use of the bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth) in Region 2, 12.2-12.75 GHz (space-to-Earth) in Region 3, 12.5-12.75 GHz (space-to-Earth) in Region 1, 13.75-14.5 GHz (Earth-to-space), 17.8-18.6 GHz (space-to-Earth), 19.7-20.2 GHz (space-to-Earth), 27.5-28.6 GHz (Earth-to-space), 29.5-30 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the geostationary-satellite service and of the complete coordination information, as appropriate, for the geostationary-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
- 5.484B Resolution 155 (WRC-15) shall apply. (WRC-15)
- 5.487 In the band 11.7-12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix 30. (WRC-03)
- 5.487A Additional allocation: in Region 1, the band 11.7-12.5 GHz, in Region 2, the band 12.2-12.7 GHz and, in Region 3, the band 11.7-12.2 GHz, are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis, limited to non-geostationary systems and subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and <u>No. 5.43A</u> does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
- **5.492** Assignments to stations of the broadcasting-satellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix **30** may also be used for transmissions in the fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
- 5.494 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Madagascar, Mali, Morocco, Mongolia, Nigeria, Oman, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-15)

- **5.497** The use of the band 13.25-13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
- **5.498A** The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25-13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
- **5.499A** The use of the frequency band 13.4-13.65 GHz by the fixed-satellite service (space-to- Earth) is limited to geostationary-satellite systems and is subject to agreement obtained under No. **9.21** with respect to satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015. (WRC-15)
- 5.499B Administrations shall not preclude the deployment and operation of transmitting earth stations in the standard frequency and time signal-satellite service (Earth-to-space) allocated on a secondary basis in the frequency band 13.4-13.65 GHz due to the primary allocation to FSS (space -to- Earth). (WRC-15)
- **5.499C** The allocation of the frequency band 13.4-13.65 GHz to the space research service on a primary basis is limited to:
  - satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015,
  - active spaceborne sensors,
  - satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations.
    - Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)
- **5.499D** In the frequency band 13.4-13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15)
- 5.499E In the frequency band 13.4-13.65 GHz, geostationary-satellite networks in the fixed-satellite service (space-to-Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and <u>No. 5.43A</u> does not apply. The provisions of No. 22.2 do not apply to the Earth exploration-satellite service (active) with respect to the fixed-satellite service (space-to-Earth) in this frequency band. (WRC-15)
- 5.500 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Morocco, Mauritania, Niger, Nigeria, Oman, Qatar, the Syrian Arab Republic, Singapore, Sudan, South Sudan, Chad and Tunisia, the frequency band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis. In Pakistan, the frequency band 13.4-13.75 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)
- **5.501A** The allocation of the frequency band 13.65-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)
- **5.501B** In the band 13.4-13.75 GHz, the Earth exploration-satellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
- **5.502** In the band 13.75-14 GHz, an earth station of a geostationary fixed-satellite service network shall have a minimum antenna diameter of 1.2 m and an earth station of a non-geostationary- fixed-satellite service system shall have a minimum antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation or radionavigation services shall not exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before an administration brings into use an earth station in a geostationary-satellite network in the fixed-satellite service in this band with an antenna diameter smaller than 4.5 m, it shall ensure that the power flux-density produced by this earth station does not exceed:
  - -115 dB(W/(m<sup>2</sup> · 10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognized by the coastal State;

 - -115 dB(W/(m<sup>2</sup> · 10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained.

For earth stations within the fixed-satellite service having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)

**5.503** In the band 13.75-14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the fixed-satellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band:

- in the band 13.77-13.78 GHz, the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in geostationary-satellite orbit shall not exceed:

- i) 4.7D + 28 dB(W/40 kHz), where *D* is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m;
- ii) 49.2 + 20 log(D/4.5) dB(W/40 kHz), where D is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m;
- iii) 66.2 dB(W/40 kHz) for any fixed-satellite service earth station for antenna diameters (m) equal to or greater than 31.9 m;
- iv) 56.2 dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed-satellite service earth station emissions from any fixed-satellite service earth station having an antenna diameter of 4.5 m or greater;

 the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in non-geostationary-satellite orbit shall not exceed 51 dBW in the 6 MHz band from 13.772 to 13.778 GHz.

Automatic power control may be used to increase the e.i.r.p. density in these frequency ranges to compensate for rain attenuation, to the extent that the power flux-density at the fixed-satellite service space station does not exceed the value resulting from use by an earth station of an e.i.r.p. meeting the above limits in clear-sky conditions. (WRC-03)

- **5.504** The use of the band 14-14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixed-satellite service.
- **5.504A** In the band 14-14.5 GHz, aircraft earth stations in the secondary aeronautical mobile-satellite service may also communicate with space stations in the fixed-satellite service. The provisions of Nos. **5.29**, **5.30** and **5.31** apply. (WRC-03)
- **5.504B** Aircraft earth stations operating in the aeronautical mobile-satellite service in the frequency band 14-14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643-0, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz frequency band located on the territory of Spain, France, India, Italy, the United Kingdom and South Africa. (WRC-15)
- 5.504C In the frequency band 14-14.25 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Côte d'Ivoire, Egypt, Guinea, India, Iran (Islamic Republic of), Kuwait, Nigeria, Oman, the Syrian Arab Republic and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. <u>5.29</u>. (WRC-15)
- 5.505 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Botswana, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Oman, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Viet Nam and Yemen, the frequency band 14-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-19)

- **5.506** The band 14-14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the broadcasting-satellite service, subject to coordination with other networks in the fixed-satellite service. Such use of feeder links is reserved for countries outside Europe.
- **5.506A** In the band 14-14.5 GHz, ship earth stations with an e.i.r.p. greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as provided in Resolution **902** (**WRC-03**). This footnote shall not apply to ship earth stations for which the complete Appendix **4** information has been received by the Bureau prior to 5 July 2003. (WRC-03)
- **5.506B** Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14-14.5 GHz without the need for prior agreement from Cyprus and Malta, within the minimum distance given in Resolution 902 (WRC-03) from these countries. (WRC-15)
- 5.508A In the frequency band 14.25-14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, China, Côte d'Ivoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. <u>5.29</u>. (WRC-15)
- 5.509A In the frequency band 14.3-14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. <u>5.29</u>. (WRC-15)
- **5.509B** The use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution **163** (WRC-15) and 14.5-14.8 GHz in countries listed in Resolution **164** (WRC-15) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service is limited to geostationary-satellites. (WRC-15)
- **5.509C** For the use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution **163** (WRC-**15**) and 14.5-14.8 GHz in countries listed in Resolution **164** (WRC-**15**) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service, the fixed-satellite service earth stations shall have a minimum antenna diameter of 6 m and a maximum power spectral density of -44.5 dBW/Hz at the input of the antenna. The earth stations shall be notified at known locations on land. (WRC-15)
- **5.509D** Before an administration brings into use an earth station in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service in the frequency bands 14.5-14.75 GHz (in countries listed in Resolution **163** (**WRC-15**)) and 14.5-14.8 GHz (in countries listed in Resolution **164** (**WRC-15**)), it shall ensure that the power flux-density produced by this earth station does not exceed -151.5 dB(W/(m<sup>2</sup>· 4 kHz)) produced at all altitudes from 0 m to 19 000 m above sea level at 22 km seaward from all coasts, defined as the low-water mark, as officially recognized by each coastal State. (WRC-15)
- **5.509E** In the frequency bands 14.50-14.75 GHz in countries listed in Resolution **163** (**WRC-15**) and 14.50-14.8 GHz in countries listed in Resolution **164** (**WRC-15**), the location of earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall maintain a separation distance of at least 500 km from the border(s) of other countries unless shorter distances are explicitly agreed by those administrations. No. **9.17** does not apply. When applying this provision, administrations should consider the relevant parts of these Regulations and the latest relevant ITU-R Recommendations. (WRC-15)
- **5.509F** In the frequency bands 14.50-14.75 GHz in countries listed in Resolution **163** (**WRC-15**) and 14.50-14.8 GHz in countries listed in Resolution **164** (**WRC-15**), earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall not constrain the future deployment of the fixed and mobile services. (WRC-15)
- **5.509G** The frequency band 14.5-14.8 GHz is also allocated to the space research service on a primary basis. However, such use is limited to the satellite systems operating in the space research service (Earth-to-space) to relay data

to space stations in the geostationary-satellite orbit from associated earth stations. Stations in the space research service shall not cause harmful interference to, or claim protection from, stations in the fixed and mobile services and in the fixed-satellite service limited to feeder links for the broadcasting-satellite service and associated space operations functions using the guardbands under Appendix **30A** and feeder links for the broadcasting-satellite service are on a secondary basis. (WRC-15)

- 5.510 Except for use in accordance with Resolution 163 (WRC-15) and Resolution 164 (WRC-15), the use of the frequency band 14.5-14.8 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. This use is reserved for countries outside Europe. Uses other than feeder links for the broadcasting-satellite service are not authorized in Regions 1 and 2 in the frequency band 14.75-14.8 GHz. (WRC-15)
- 5.511 Additional allocation: in Saudi Arabia, Bahrain, Cameroon, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, Kuwait, Lebanon, Oman, Pakistan, Qatar, the Syrian Arab Republic and Somalia, the band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)
- 5.511A Use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (Earth-to- space) is limited to feeder links of non-geostationary systems in the mobile-satellite service, subject to coordination under No. 9.11A. (WRC-15)
- **5.511C** Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340-0. The minimum coordination distance required to protect the aeronautical radionavigation stations (No. **4.10** applies) from harmful interference from feeder-link earth stations and the maximum e.i.r.p. transmitted towards the local horizontal plane by a feeder-link earth station shall be in accordance with Recommendation ITU-R S.1340-0. (WRC-15)
- **5.511E** In the frequency band 15.4-15.7 GHz, stations operating in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the aeronautical radionavigation service. (WRC-12)
- **5.511F** In order to protect the radio astronomy service in the frequency band 15.35-15.4 GHz, radiolocation stations operating in the frequency band 15.4-15.7 GHz shall not exceed the power flux-density level of  $-156 \text{ dB}(\text{W/m}^2)$  in a 50 MHz bandwidth in the frequency band 15.35-15.4 GHz, at any radio astronomy observatory site for more than 2 per cent of the time. (WRC-12)
- 5.512 Additional allocation: in Algeria, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Congo (Rep. of the), Egypt, El Salvador, the United Arab Emirates, Eritrea, Finland, Guatemala, India, Indonesia, Iran (Islamic Republic of), Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Montenegro, Nepal, Nicaragua, Niger, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)
- **5.513A** Spaceborne active sensors operating in the band 17.2-17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)
- 5.514 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Bangladesh, Cameroon, El Salvador, the United Arab Emirates, Guatemala, India, Iran (Islamic Republic of), Iraq, Israel, Italy, Japan, Jordan, Kuwait, Libya, Lithuania, Nepal, Nicaragua, Nigeria, Oman, Uzbekistan, Pakistan, Qatar, Kyrgyzstan, Sudan and South Sudan, the frequency band 17.3-17.7 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits given in Nos. 21.3 and 21.5 shall apply. (WRC-15)
- 5.515 In the band 17.3-17.8 GHz, sharing between the fixed-satellite service (Earth-to-space) and the broadcastingsatellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix **30A**.
- 5.516 The use of the band 17.3-18.1 GHz by geostationary-satellite systems in the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. The use of the band 17.3-17.8 GHz in Region 2 by systems in the fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3-17.8 GHz in Region 2 by feeder links for the broadcasting--satellite service in the band 12.2-12.7 GHz, see Article 11. The use of the bands 17.3-18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixed-satellite

service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationarysatellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and <u>No. 5.43A</u> does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)

- **5.516A** In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix **30A**, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. (WRC-03)
- **5.516B** The following bands are identified for use by high-density applications in the fixed-satellite service:17.3-17.7 GHz (space-to-Earth) in Region 1,18.3-19.3 GHz (space-to-Earth) in Region 2,19.7-20.2 GHz(space-to-Earth) in all Regions,39.5-40 GHz (space-to-Earth) in Region 1,40-40.5 GHz (space-to-Earth) in all Regions,40.5-42 GHz (space-to-Earth) in Region 2,47.5-47.9 GHz (space-to-Earth) in Region 1,48.2-48.54 GHz (space-to-Earth) in Region 1,27.5-27.82 GHz (Earth-to-space) in Region 1,28.35-28.45 GHz (Earth-to-space) in Region 2,28.45-28.94 GHz (Earth-to-space) in all Regions,28.94-29.1 GHz (Earth-to-space) in Region 2 and 3,29.25-29.46 GHz (Earth-to-space) in Region 2,29.46-30 GHz (Earth-to-space) in all Regions,48.2-50.2 GHz (Earth-to-space) in Region 2. This identification does not preclude the use of these frequency bands by other fixed-satellite service applications or by other services to which these frequency bands are allocated on a co-primary basis and does not establish priority in these Radio Regulations among users of the frequency bands. Administrations should take this into account when considering regulatory provisions in relation to these frequency bands. See Resolution **143 (Rev.WRC-19)**. (WRC-19)
- **5.517A** The operation of earth stations in motion communicating with geostationary fixed-satellite service space stations within the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) shall be subject to the application of Resolution **169 (WRC-19)**. (WRC-19)
- **5.519** Additional allocation: the bands 18-18.3 GHz in Region 2 and 18.1-18.4 GHz in Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
- **5.520** The use of the band 18.1-18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
- 5.521 Alternative allocation: in the United Arab Emirates and Greece, the frequency band 18.1-18.4 GHz is allocated to the fixed, fixed-satellite (space-to-Earth) and mobile services on a primary basis (see No. 5.33). The provisions of No. 5.519 also apply. (WRC-15)
- **5.522A** The emissions of the fixed service and the fixed-satellite service in the band 18.6-18.8 GHz are limited to the values given in Nos. **21.5A** and **21.16.2**, respectively. (WRC-2000)
- **5.522B** The use of the band 18.6-18.8 GHz by the fixed-satellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)
- 5.522C In the band 18.6-18.8 GHz, in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, Jordan, Lebanon, Libya, Morocco, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen, fixed-service systems in operation at the date of entry into force of the Final Acts of WRC--2000 are not subject to the limits of No. 21.5A. (WRC-2000)
- 5.523A The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) by geostationary and non-geostationary fixed-satellite- service networks is subject to the application of the provisions of No. 9.11A and No. 22.2 does not apply. Administrations having geostationary-satellite networks under coordination prior to 18 November 1995 shall cooperate to the maximum extent possible to coordinate pursuant to No. 9.11A with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned. Non-geostationary-satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service networks for which complete Appendix 4 notification information is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)

- **5.523B** The use of the band 19.3-19.6 GHz (Earth-to-space) by the fixed-satellite service is limited to feeder links for non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. **9.11A**, and No. **22.2** does not apply.
- 5.523C No. 22.2 shall continue to apply in the bands 19.3-19.6 GHz and 29.1-29.4 GHz, between feeder links of non-geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix 4 coordination information, or notification information, is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
- **5.523D** The use of the band 19.3-19.7 GHz (space-to-Earth) by geostationary fixed-satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite service is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2. The use of this band for other non-geostationary fixed-satellite service systems, or for the cases indicated in Nos. 5.523C and 5.523E, is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- **5.523E** No. **22.2** shall continue to apply in the bands 19.6-19.7 GHz and 29.4-29.5 GHz, between feeder links of nongeostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix **4** coordination information, or notification information, is considered as having been received by the Bureau by 21 November 1997. (WRC-97)
- 5.524 Additional allocation: in Afghanistan, Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Tunisia, the frequency band 19.7-21.2 GHz is also allocated to the fixed and mobile services on a primary basis. This additional use shall not impose any limitation on the power flux-density of space stations in the fixed-satellite service in the frequency band 19.7-20.2 GHz where the allocation to the mobile-satellite service is on a primary basis in the latter frequency band. (WRC-15)
- **5.525** In order to facilitate interregional coordination between networks in the mobile-satellite and fixed-satellite services, carriers in the mobile-satellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7-20.2 GHz and 29.5-30 GHz.
- **5.526** In the bands 19.7-20.2 GHz and 29.5-30 GHz in Region 2, and in the bands 20.1-20.2 GHz and 29.9-30 GHz in Regions 1 and 3, networks which are both in the fixed-satellite service and in the mobile-satellite service may include links between earth stations at specified or unspecified points or while in motion, through one or more satellites for point-to-point and point-to-multipoint communications.
- **5.527** In the bands 19.7-20.2 GHz and 29.5-30 GHz, the provisions of No. **4.10** do not apply with respect to the mobile-satellite service.
- **5.527A** The operation of earth stations in motion communicating with the FSS is subject to Resolution **156 (WRC-15)**. (WRC-15)
- **5.528** The allocation to the mobile-satellite service is intended for use by networks which use narrow spot-beam antennas and other advanced technology at the space stations. Administrations operating systems in the mobile-satellite service in the band 19.7-20.1 GHz in Region 2 and in the band 20.1-20.2 GHz shall take all practicable steps to ensure the continued availability of these bands for administrations operating fixed and mobile systems in accordance with the provisions of No. <u>5.524</u>.
- 5.530A Unless otherwise agreed between the administrations concerned, any station in the fixed or mobile services of an administration shall not produce a power flux-density in excess of −120.4 dB(W/(m<sup>2</sup> · MHz)) at 3 m above the ground of any point of the territory of any other administration in Regions 1 and 3 for more than 20% of the time. In conducting the calculations, administrations should use the most recent version of Recommendation ITU-R P.452 (see also the most recent version of Recommendation ITU-R BO.1898). (WRC-15)

- **5.530B** In the band 21.4-22 GHz, in order to facilitate the development of the broadcasting-satellite service, administrations in Regions 1 and 3 are encouraged not to deploy stations in the mobile service and are encouraged to limit the deployment of stations in the fixed service to point-to-point links. (WRC-12)
- **5.532** The use of the band 22.21-22.5 GHz by the Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
- **5.532A** The location of earth stations in the space research service shall maintain a separation distance of at least 54 km from the respective border(s) of neighbouring countries to protect the existing and future deployment of fixed and mobile services unless a shorter distance is otherwise agreed between the corresponding administrations. Nos. **9.17** and **9.18** do not apply. (WRC-12)
- **5.532B** Use of the band 24.65-25.25 GHz in Region 1 and the band 24.65-24.75 GHz in Region 3 by the fixed-satellite service (Earth-to-space) is limited to earth stations using a minimum antenna diameter of 4.5 m. (WRC-12)
- **5.532AB** The frequency band 24.25-27.5 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **242 (WRC-19)** applies. (WRC-19)
- **5.534A** the allocation to the fixed service in the frequency band 25.25-27.5 GHz is identified in Region 2 for use by high-altitude platform stations (HAPS) in accordance with the provisions of Resolution **166** (WRC-19). Such use of the fixed-service allocation by HAPS shall be limited to the ground-to-HAPS direction in the frequency band 25.25-27.0 GHz and to the HAPS-to-ground direction in the frequency band 27.0-27.5 GHz. Furthermore, the use of the frequency band 25.5-27.0 GHz by HAPS shall be limited to gateway links. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. (WRC-19)
- 5.535A The use of the band 29.1-29.5 GHz (Earth-to-space) by the fixed-satellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2, except as indicated in Nos. 5.523C and 5.523E where such use is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
- **5.536** Use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space.
- 5.536A Administrations operating earth stations in the Earth exploration-satellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth exploration-satellite service or in the space research service should be operated taking into account the most recent version of Recommendation ITU-R SA.1862. Resolution 242 (WRC-19) applies. (WRC-19)
- 5.536B In Algeria, Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Slovenia, Sudan, Sweden, Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the frequency band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. Resolution 242 (WRC-19) applies. (WRC-19)
- 5.536C In Algeria, Saudi Arabia, Bahrain, Botswana, Brazil, Cameroon, Comoros, Cuba, Djibouti, Egypt, United Arab Emirates, Estonia, Finland, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Lithuania, Malaysia, Morocco, Nigeria, Oman, Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Tanzania, Tunisia, Uruguay, Zambia and Zimbabwe, earth stations operating in the space research service in the band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-12)
- **5.538** *Additional allocation:* the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power

control. Such space-to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of +10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07)

- **5.539** The band 27.5-30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
- **5.540** *Additional allocation:* the band 27.501-29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
- **5.541** In the band 28.5-30 GHz, the earth exploration-satellite service is limited to the transfer of data between stations and not to the primary collection of information by means of active or passive sensors.
- 5.541A Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed-satellite service operating in the band 29.1-29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix 4 coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent world radiocommunication conference. Administrations submitting Appendix 4 information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)
- 5.542 Additional allocation: in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Oman, Pakistan, Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Somalia, Sudan, South Sudan, Sri Lanka and Chad, the band 29.5-31 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits specified in Nos. 21.3 and 21.5 shall apply. (WRC-12)
- **5.543** The band 29.95-30 GHz may be used for space-to-space links in the Earth exploration-satellite service for telemetry, tracking, and control purposes, on a secondary basis.
- **5.543B** The allocation to the fixed service in the frequency band 31-31.3 GHz is identified for worldwide use by highaltitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **167 (WRC-19**). (WRC-19)
- **5.544** In the band 31-31.3 GHz the power flux-density limits specified in Article **21**, Table **21-4** shall apply to the space research service.
- 5.546 Different category of service: in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the frequency band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33). (WRC-19)
- **5.547** The bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high-density applications in the fixed service (see Resolution **75** (WRC-2000) <sup>10</sup>). Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the bands 39.5-40 GHz and 40.5-42 GHz (see No. <u>5.516B</u>), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)
- **5.547A** Administrations should take practical measures to minimize the potential interference between stations in the fixed service and airborne stations in the radionavigation service in the 31.8-33.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
- **5.548** In designing systems for the inter-satellite service in the band 32.3-33 GHz, for the radionavigation service in the band 32-33 GHz, and for the space research service (deep space) in the band 31.8-32.3 GHz,

<sup>&</sup>lt;sup>10</sup> Note by the Secretariat: This Resolution was revised by WRC-12.

administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation **707**). (WRC-03)

- 5.549 Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South Sudan, Sri Lanka, Togo, Tunisia and Yemen, the band 33.4-36 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
- **5.549A** In the band 35.5-36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed -73.3 dB(W/m<sup>2</sup>) in this band. (WRC-03)
- **5.550A** For sharing of the band 36-37 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile services, Resolution **752 (WRC-07)** shall apply. (WRC-07)
- 5.550B The frequency band 37-43.5 GHz, or portions thereof, is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Because of the potential deployment of FSS earth stations within the frequency range 37.5-42.5 GHz and high-density applications in the fixed-satellite service in the frequency bands 39.5-40 GHz in Region 1, 40-40.5 GHz in all Regions and 40.5-42 GHz in Region 2 (see No. <u>5.516B</u>), administrations should further take into account potential constraints to IMT in these frequency bands, as appropriate. Resolution 243 (WRC-19) applies. (WRC-19)
- **5.550C** The use of the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) by a non-geostationary-satellite systems in the fixed-satellite service is subject to the application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service but not with non-geostationary systems in other services. Resolution **770** (WRC-19) shall also apply, and No. **22.2** shall continue to apply. (WRC-19)
- **5.550D** The allocation to the fixed service in the frequency band 38-39.5 GHz is identified for worldwide use by administrations wishing to implement high-altitude platform stations (HAPS). In the HAPS-to-ground direction, the HAPS ground station shall not claim protection from stations in the fixed, mobile and fixed-satellite services; and <u>No. 5.43A</u> does not apply. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis and does not establish priority in the Radio Regulations. Furthermore, the development of the fixed-satellite, fixed and mobile services shall not be unduly constrained by HAPS. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **168 (WRC-19)**. (WRC-19)
- **5.550E** The use of the frequency bands 39.5-40 GHz and 40-40.5 GHz by non-geostationary-satellite systems in the mobile-satellite service (space-to-Earth) and by non-geostationary-satellite systems in the fixed-satellite service (space-to-Earth) is subject to the application of the provisions of No. **9.12** for coordination with other non-geostationary satellite systems in the fixed-satellite and mobile-satellite services but not with non-geostationary satellite systems in other services. No. **22.2** shall continue to apply for non-geostationary-satellite systems. (WRC-19)
- **5.551H** The equivalent power flux-density (epfd) produced in the band 42.5-43.5 GHz by all space stations in any non-geostationary-satellite system in the fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station for more than 2% of the time:

 $-230~dB(W/m^2)$  in 1 GHz and  $-246~dB(W/m^2)$  in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and

 $-209 \text{ dB}(W/m^2)$  in any 500 kHz of the 42.5-43.5 GHz at the site of any radio astronomy station registered as a very long baseline interferometry station.

These epfd values shall be evaluated using the methodology given in Recommendation ITU-R S.1586-1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in Recommendation ITU-R RA.1631-0 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle  $\theta_{min}$  of the radiotelescope (for which a default value of 5° should be adopted in the absence of notified information).

These values shall apply at any radio astronomy station that either:

-was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or

-was notified before the date of receipt of the complete Appendix 4 information for coordination or notification, as appropriate, for the space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution **743** (WRC-03) shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-15)

**5.5511** The power flux-density in the band 42.5-43.5 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth), or the broadcasting-satellite service operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station:

 $-137 \text{ dB}(\text{W/m}^2)$  in 1 GHz and  $-153 \text{ dB}(\text{W/m}^2)$  in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and

 $-116 \text{ dB}(\text{W/m}^2)$  in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station.

These values shall apply at the site of any radio astronomy station that either:

- was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or
- was notified before the date of receipt of the complete Appendix **4** information for coordination or notification, as appropriate, for the space station to which the limits apply.

Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution **743 (WRC-03)** shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-03)

- **5.552** The allocation of the spectrum for the fixed-satellite service in the bands 42.5-43.5 GHz and 47.2-50.2 GHz for Earth-to-space transmission is greater than that in the band 37.5-39.5 GHz for space-to-Earth transmission in order to accommodate feeder links to broadcasting satellites. Administrations are urged to take all practicable steps to reserve the band 47.2-49.2 GHz for feeder links for the broadcasting-satellite service operating in the band 40.5-42.5 GHz.
- **5.552A** The allocation to the fixed service in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz is identified for use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz by HAPS shall be in accordance with the provisions of Resolution **122 (Rev.WRC-19)**. (WRC-19)
- 5.553 In the bands 43.5-47 GHz and 66-71 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radiocommunication services to which these bands are allocated (see No. 5.43). (WRC-2000)
- 5.553A In Algeria, Angola, Bahrain, Belarus, Benin, Botswana, Brazil, Burkina Faso, Cabo Verde, Korea (Rep. of), Côte d'Ivoire, Croatia, United Arab Emirates, Estonia, Eswatini, Gabon, Gambia, Ghana, Greece, Guinea, Guinea-Bissau, Hungary, Iran (Islamic Republic of), Iraq, Jordan, Kuwait, Lesotho, Latvia, Liberia, Lithuania, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Qatar, Senegal, Seychelles, Sierra Leone, Slovenia, Sudan, South Africa, Sweden, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 45.5-47 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT), taking into account No. <u>5.553</u>. With respect to the aeronautical mobile service and radionavigation service, the use of this frequency band for the implementation of IMT is subject to agreement obtained under No. <u>9.21</u> with concerned administrations and shall not cause harmful interference to, or claim protection from these services. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution 244 (WRC-19)
- 5.553B In Region 2 and Algeria, Angola, Saudi Arabia, Australia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lesotho, Liberia, Libya, Lithuania, Madagascar, Malaysia, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao

Tome and Principe, Senegal, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, South Africa, Sweden, Tanzania, Chad, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 47.2-48.2 GHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated, and does not establish any priority in the Radio Regulations. Resolution **243** (WRC-19) applies. (WRC-19)

- **5.554** In the bands 43.5-47 GHz, 66-71 GHz, 95-100 GHz, 123-130 GHz, 191.8-200 GHz and 252-265 GHz, satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with the mobile-satellite service or the radionavigation-satellite service. (WRC-2000)
- **5.554A** The use of the bands 47.5-47.9 GHz, 48.2-48.54 GHz and 49.44-50.2 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
- **5.555** *Additional allocation:* the band 48.94-49.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
- **5.555B** The power flux-density in the band 48.94-49.04 GHz produced by any geostationary space station in the fixedsatellite service (space-to-Earth) operating in the bands 48.2-48.54 GHz and 49.44-50.2 GHz shall not exceed -151.8 dB(W/m<sup>2</sup>) in any 500 kHz band at the site of any radio astronomy station. (WRC-03)
- **5.555C** The use of the frequency band 51.4-52.4 GHz by the fixed-satellite service (Earth-to-space) is limited to geostationary-satellite networks. The earth stations shall be limited to gateway earth stations with a minimum antenna diameter of 2.4 metres. (WRC-19)
- 5.556 In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
- **5.556A** Use of the bands 54.25-56.9 GHz, 57-58.2 GHz and 59-59.3 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed -147 dB(W/(m<sup>2</sup> . 100 MHz)) for all angles of arrival. (WRC-97)
- **5.557A** In the band 55.78-56.26 GHz, in order to protect stations in the Earth exploration-satellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to 26 dB(W/MHz). (WRC-2000)
- 5.558 In the bands 55.78-58.2 GHz, 59-64 GHz, 66-71 GHz, 122.25-123 GHz, 130-134 GHz, 167-174.8 GHz and 191.8-200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter-satellite service (see <u>No. 5.43</u>). (WRC-2000)
- 5.558A Use of the band 56.9-57 GHz by inter-satellite systems is limited to links between satellites in geostationary-satellite orbit and to transmissions from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links between satellites in the geostationary-satellite orbit, the single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all conditions and for all methods of modulation, shall not exceed -147 dB(W/(m<sup>2</sup> . 100 MHz)) for all angles of arrival. (WRC-97)
- **5.559** In the band 59-64 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service (see <u>No. 5.43</u>). (WRC-2000)
- 5.559AA The frequency band 66-71 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which this frequency band is allocated and does not establish priority in the Radio Regulations. Resolution 241 (WRC-19) applies. (WRC-19)
- 5.559B The use of the frequency band 77.5-78 GHz by the radiolocation service shall be limited to short-range radar for ground-based applications, including automotive radars. The technical characteristics of these radars are provided in the most recent version of Recommendation ITU-R M.2057. The provisions of No. 4.10 do not apply. (WRC-15)
- **5.560** In the band 78-79 GHz radars located on space stations may be operated on a primary basis in the Earth exploration-satellite service and in the space research service.

- **5.561** In the band 74-76 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixed-satellite service or stations of the broadcasting-satellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcasting-satellite service. (WRC-2000)
- 5.561A The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)
- 5.562 The use of the band 94-94.1 GHz by the Earth exploration-satellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)
- 5.562A In the bands 94-94.1 GHz and 130-134 GHz, transmissions from space stations of the Earth explorationsatellite service (active) that are directed into the main beam of a radio astronomy antenna have the potential to damage some radio astronomy receivers. Space agencies operating the transmitters and the radio astronomy stations concerned should mutually plan their operations so as to avoid such occurrences to the maximum extent possible. (WRC-2000)
- 5.562B In the bands 105-109.5 GHz, 111.8-114.25 GHz and 217-226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-19)
- **5.562C** Use of the band 116-122.25 GHz by the inter-satellite service is limited to satellites in the geostationarysatellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed  $-148 \text{ dB}(W/(\text{m}^2 \cdot \text{MHz}))$  for all angles of arrival. (WRC-2000)
- 5.562E The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz. (WRC-2000)
- **5.562H** Use of the bands 174.8-182 GHz and 185-190 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed -144 dB(W/(m<sup>2</sup> . MHz)) for all angles of arrival. (WRC-2000)
- **5.563A** In the bands 200-209 GHz, 235-238 GHz, 250-252 GHz and 265-275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
- **5.563B** The band 237.9-238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
- **5.564A** For the operation of fixed and land mobile service applications in frequency bands in the range 275-450 GHz: The frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications, where no specific conditions are necessary to protect Earth exploration-satellite service (passive) applications.

The frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz may only be used by fixed and land mobile service applications when specific conditions to ensure the protection of Earth exploration-satellite service (passive) applications are determined in accordance with Resolution **731** (**Rev.WRC-19**).

In those portions of the frequency range 275-450 GHz where radio astronomy applications are used, specific conditions (e.g. minimum separation distances and/or avoidance angles) may be necessary to ensure protection of radio astronomy sites from land mobile and/or fixed service applications, on a case-by-case basis in accordance with Resolution **731 (Rev.WRC-19)**.

The use of the above-mentioned frequency bands by land mobile and fixed service applications does not preclude use by, and does not establish priority over, any other applications of radio services in the range of 275-450 GHz. (WRC-19)

**5.565** The following frequency bands in the range 275-1 000 GHz are identified for use by administrations for passive service applications:

-radio astronomy service: 275-323 GHz, 327-371 GHz, 388-424 GHz, 426-442 GHz, 453-510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz;

-Earth exploration-satellite service (passive) and space research service (passive): 275-286 GHz, 296-306 GHz, 313-356 GHz, 361-365 GHz, 369-392 GHz, 397-399 GHz, 409-411 GHz,

416-434 GHz,	439-467 GHz,	477-502 GHz,	523-527 GHz,	538-581 GHz,	611-630 GHz,
634-654 GHz,	657-692 GHz,	713-718 GHz,	729-733 GHz,	750-754 GHz,	771-776 GHz,
823-846 GHz,	850-854 GHz,	857-862 GHz,	866-882 GHz,	905-928 GHz,	951-956 GHz,
968-973 GHz an	d 985-990 GHz.				

The use of the range 275-1 000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 275-1 000 GHz range available for active service applications are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Table of Frequency Allocations is established in the above-mentioned 275-1 000 GHz frequency range.

All frequencies in the range 1 000-3 000 GHz may be used by both active and passive services. (WRC-12)

وزارة الصناعة والتجارة والسياحة

## إعلانات مركز المستثمرين

إعلان رقم (٤٢٢) لسنة ٢٠٢٠ بشأن تحويل فرع مؤسسة فردية إلى شركة ذات مسئولية محدودة

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه السيد/ عمرو محمد جابر غيضان، مالك المؤسسة الفردية التي تحمل اسم (الحوت الازرق للتجارة)، المسجلة بموجب القيد رقم ١٣١١١٨، طالبا تحويل الفرع الثاني من المؤسسة إلى شركة ذات مسئولية محدودة قائمة بذاتها، وبرأسمال مقداره ١٠،٠٠٠ (عشرة آلاف) دينار بحريني، وتسجل باسم كل من: عمرو محمد جابر غيضان، ولبنى عبدالعزيز إبراهيم آل بورشيد.

> إعلان رقم (٤٢٣) لسنة ٢٠٢٠ بشأن تحويل مؤسسة فردية إلى شركة ذات مسئولية محدودة

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدمت إليه شركة (تسوية للمحاسبة والاستشارات) نيابة عن خديجة محمد جعفر محمد علي الجفيري، مالكة المؤسسة الفردية التي تحمل اسم (مصنع ذا كراب)، المسجلة بموجب القيد رقم ١٢٣٢٠٣، طالبة تغيير الشكل القانوني للمؤسسة وذلك بتحويلها إلى شركة ذات مسئولية محدودة، وبرأسمال مقداره ٥٠٠٠٥ (خمسة آلاف) دينار بحريني، وتسجل باسم كل من شاكر صالح علي عبدالله ويوسف يوسف طه محسن، وذلك بناءً على تنازل المالكة عن ملكيتها للسجل إليهما.

فعلى كل من لديه اعتراض التقدم باعتراضه إلى المركز المذكور مشفوعاً بالمستندات المؤيِّدة والمبرِّرة للاعتراض خلال مدة أقصاها خمسة عشر يوم عمل من تاريخ نشر هذا الإعلان.

إعلان رقم (٤٢٤) لسنة ٢٠٢٠ بشأن تحويل شركة ذات مسئولية محدودة إلى شركة الشخص الواحد يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه الشركاء في الشركة ذات المسئولية المحدودة التي تحمل اسم (جافكو البحرين ذ.م.م) ، المسجلة بموجب القيد رقم ٦٦١٥٢ ، طالبين تغيير الشكل القانوني للشركة وذلك بتحويلها إلى شركة الشخص الواحد ، وبر أسمال مقداره ٢٠،٩٨٧،٦٤ ديناراً بحرينياً ، وتسجل باسم شركة (فينشر كابيتال بنك ش.م.ب مقفلة) ، المسجلة بموجب القيد رقم ٥٨٢٢٢.

> إعلان رقم (٤٢٥) لسنة ٢٠٢٠ بشأن تحويل مؤسسة فردية إلى شركة الشخص الواحد

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه السيد/ يوسف أحمد علي أحمد، مالك المؤسسة الفردية التي تحمل اسم (لتلكونكس للاستشارة)، المسجلة بموجب القيد رقم ٩٣٦٠٥-٢، طالباً تغيير الشكل القانوني للمؤسسة وذلك بتحويلها إلى شركة الشخص الواحد، وبرأسمال مقداره ١،٠٠٠ (ألف) دينار بحريني، وتسجل باسم المالك نفسه.

> إعلان رقم (٤٢٦) لسنة ٢٠٢٠ بشأن تحويل فرعين من مؤسسة فردية إلى شركة ذات مسئولية محدودة

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه السيد/ شميم ندرت محمود علي داود، مالك المؤسسة الفردية التي تحمل اسم (داود لقطع غيار الآليات الثقيلة)، المسجلة بموجب القيد رقم ٦٦٢٢٣، طالبا تحويل الفرعين الخامس والسادس من المؤسسة إلى شركة ذات مسئولية محدودة قائمة بذاتها، وبرأسمال مقداره ١،٠٠٠ (ألف) دينار بحريني، وتسجل باسم كل من: شميم ندرت محمود على داود، و MOHAMED ESSA ALL.

> إعلان رقم (٤٢٧) لسنة ٢٠٢٠ بشأن تحويل شركة ذات مسئولية محدودة إلى شركة تضامن

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه الشركاء في الشركة ذات المسئولية المحدودة التي تحمل اسم (فراتيرنيتي لحلول الأعمال ذ.م.م)، المسجلة بموجب القيد رقم ١١٥٦٨٧–١، طالبين تغيير الشكل القانوني للشركة المذكورة وذلك بتحويلها إلى شركة تضامن، وبرأسمال مقداره ٥٠٠ (خمسمائة) دينار بحريني، وتسجل باسم كل من: JASIR PUTHAN PURAYIL، SHAFEENA THAZHE PALOTH.

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إعلان رقم (٤٢٨) لسنة ٢٠٢٠ بشأن تحويل فرع مؤسسة فردية إلى شركة تضامن

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدمت إليه شركة (مرسى الخليج للاستشارات) نيابة عن السيد/ إبراهيم علي إبراهيم بوفرسن، مالك المؤسسة الفردية التي تحمل اسم (ميري روز للتنجيدات)، المسجلة بموجب القيد رقم ٢٥٠٦٤، طالبة تحويل الفرع الثامن من المؤسسة والمسمى (آر إس رحيلة للمفروشات والتنجيدات) إلى شركة تضامن قائمة بذاتها، وبرأسمال مقداره ٢،٠٠٠ (ألفين) دينار بحريني، وإدخال RAKIB ABDUL HOQUE HOQUE فريكاً معه في السجل.

فعلى كل من لديه اعتراض التقدم باعتراضه إلى المركز المذكور مشفوعاً بالمستندات المؤيِّدة والمبرِّرة للاعتراض خلال مدة أقصاها خمسة عشر يوم عمل من تاريخ نشر هذا الإعلان.

> إعلان رقم (٤٢٩) لسنة ٢٠٢٠ بشأن تحويل شركة تضامن بحرينية إلى شركة الشخص الواحد

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه أصحاب شركة التضامن التي تحمل اسم (فواز للمقاولات والتجارة/ تضامن)، المسجلة بموجب القيد رقم ١٢٣٢٢، طالبين تغيير الشكل القانوني للشركة وذلك بتحويلها إلى شركة الشخص الواحد، وبرأسمال مقداره ٥،٠٠٠ (خمسة آلاف) دينار بحريني، وتسجل باسم السيد/ فواز محمد إبراهيم رمضان، وذلك بناءً على تنازل الشريكة السيدة/ مريم سلمان محمد صالح الأحمد عن كامل حصصها في الشركة إليه .

فعلى كل من لديه اعتراض التقدم باعتراضه إلى المركز المذكور مشفوعاً بالمستندات المؤيِّدة والمبرِّرة للاعتراض خلال مدة أقصاها خمسة عشر يوم عمل من تاريخ نشر هذا الإعلان.

> إعلان رقم (٤٣٠) لسنة ٢٠٢٠ بشأن ضم وحل شركة ذات مسئولية محدودة واندماجها مع شركة (المؤيد ترست ذ.م.م)

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدمت إليه شركة (المؤيد جيمبرز للاستشارات ذ.م.م)، نيابة عن الشركة ذات المسئولية المحدودة التي تحمل اسم (حروف ذ.م.م)، المسجلة تحت قيد رقم ٥٨٤٦١، طالبة حل (شركة حروف ذ.م.م) وضمها واندماجها مع الشركة ذات المسئولية المحدودة التي تحمل اسم (المؤيد ترست ذ.م.م)، المسجلة بموجب القيد رقم ٧٣١١٥، ومن ثم انتقال كافة الحقوق والالتزامات التي على شركة (حروف ذ.م.م) إلى شركة (المؤيد ترست ذ.م.م).

فعلى كل من لديه اعتراض التقدم باعتراضه إلى المركز المذكور مشفوعا بالمستندات المؤيِّدة والمبرِّرة للاعتراض خلال مدة أقصاها خمسة عشر يوم عمل من تاريخ نشر هذا الإعلان.

إعلان رقم (٤٣١) لسنة ٢٠٢٠ بشأن تحويل شركة ذات مسئولية محدودة إلى مؤسسة فردية قائمة

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه الشركاء في الشركة ذات المسئولية المحدودة التي تحمل اسم (مطعم ميلبريب بحرين ذ.م.م)، المسجلة بموجب القيد رقم ١١١٣٧٦، طالبين تحويل الشركة إلى فرع من المؤسسة الفردية التي تحمل اسم (حضانة بيغ بن)، المسجلة بموجب القيد رقم ١٢٢٧٥٥ والمملوكة للسيد/ محمد عاشور شبر علي رضي، ومباشرته متابعة إجراءات التحويل.

> إعلان رقم (٤٣٢) لسنة ٢٠٢٠ بشأن تحويل مؤسسة فردية إلى شركة ذات مسئولية محدودة

يعلن مركز البحرين للمستثمرين بوزارة الصناعة والتجارة والسياحة بأنه قد تقدم إليه السيد/ علي محمد حسن بورشيد، مالك المؤسسة الفردية التي تحمل اسم (البورشيد للزجاج والمرايا)، المسجلة بموجب القيد رقم ٦٦٤٢١–١، طالباً تغيير الشكل القانوني للمؤسسة وذلك بتحويلها إلى شركة ذات مسئولية محدودة، وبرأسمال مقداره ١،٠٠٠ (ألف) دينار بحريني، وتسجل باسم كل من: علي محمد حسن بورشيد، و NALLASIVAN CHETTIAR KITTU

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رقم الدعوى: ٢٠٢٠/١١/ غرفة

## إعلان بقرار تشكيل هيئة وبموعد جلسة أمام الهيئة

المدعية: شركة يوسف خليل المؤيد وأولاده ش.م.ب مقفلة (سجل تجاري رقم ١٤٢٧). وكيلها: المحامي إياب إبراهيم جهاد. عنوان وكيلها: بناية بنك البحرين الوطني، الدور ٧، شارع الحكومة، المنامة. المدعى عليها: Thorn emi kenwood small applicance Itd، intl division عنوان آخر مقر لها: مرفأ البحرين المالي، البرح الغربي، بناية ١٤٥٩، مجمع ٣٤٦ مكتب ١٣٣.

قرار تشكيل هيئة تسوية النزاع رقم (٢١/ل٤٠) لسنة ٢٠٢٠ تُشكَّل هيئة تسوية النزاع في الدعوى رقم ٢٠٢٠/١/غرفة من السادة التالية أسماؤهم: ١. القاضي عبدالرحمن السيد محمد المعلا (رئيسًا). ٢. القاضي خالد حسن عجاجي (عضوًا). ٣. الأستاذ حسين مهدي القيدوم (عضوًا).

تعلن غرفة البحرين لتسوية المنازعات للمدعى عليها المذكورة أعلام بقرار تشكيل هيئة تسوية النزاع في الدعوى رقم ٢٠١٩/١١/غرفة وبموعد أول جلسة أمام الهيئة والمقرر عقدها يوم الأربعاء الموافق ٢٩ يونيو ٢٠٢٠ عند الساعة ١١:١٥ صباحًا، بمقر الغرفة وعنوانها: بناية البارك بلازا، القاعة رقم ١، الطابق الثالث، مبنى ٢٤٧، شارع ١٧٠٤، المنطقة الدبلوماسية، المنامة، مملكة البحرين، وذلك عملاً بالقرار رقم (٦٥) لسنة ٢٠٠٩ بإصدار لائحة إجراءات تسوية المنازعات التي تختص بها غرفة البحرين لتسوية المنازعات بموجب الفصل الأول من الباب الثاني من المرسوم بقانون رقم (٣٠) لسنة ٢٠٠٩، ليعلم.

مدير الدعوى لدى غرفة البحرين لتسوية المنازعات

شميتها 67

رقم الدعوى: ٢٠١٩/٣١/ غرفة

## إعلان بموعد جلسة أمام الهيئة

المدعي: بنك البحرين الإسلامي ش.م.ب، وكيله: المحامي سلمان عبدالله صليبيخ. عنـوان وكيلـه: برج الويند تاور، مكتب ٩٢، بناية رقم ٤٠٣، الطابق التاسع، شارع ١٧٠٥، مجمع ١٣٧ – المنطقة الدبلوماسية، المنامة. المدعى عليها الأولى: الشركة المتحدة للإنشاءات العربية ذ.م.م. المدعى عليه الثاني: Koorakkadan veera pillai abdusalam. المدعى عليه الثاني: Shaiju yoosaf kuttt. آخر عنوان معلوم لهما: شقة ٢٤، طريق ٣٦٢٢، مبنى ١٠٧٢، مجمع ٤٣٦، السيف، المنامة. المدعى عليه الرابع: صلاح يوسف عبدالرحمن إنجنير. وكيلهم: المحامي عادل عبدالله بوعلي. عنوانه: بناية البحرينية الكويتيـة للتأمين، الطابق السادس، مكتب ٦١، المنطقة الدبلوماسية، المنامة.

تعلن غرفة البحرين لتسوية المنازعات للمدعى عليهم الأول والثاني والثالث المذكورين أعلام، بموعد جلسة نظر الدعوى أمام الهيئة والمقرر عقدها بتاريخ ٢٩ يوليو ٢٠٢٠ عند الساعة ١١:٣٠صباحًا بمقر الغرفة، وعنوانها: بناية البارك بلازا، الطابق الثالث، مبنى ٢٤٧، شارع ١٧٠٤، المنطقة الدبلوماسية، المنامة، مملكة البحرين. وذلك عملاً بالقرار رقم (٦٥) لسنة ٢٠٠٩ بإصدار لائحة إجراءات تسوية المنازعات التي تختص بها غرفة البحرين لتسوية المنازعات بموجب الفصل الأول من الباب الثاني من المرسوم بقانون رقم (٣٥) لسنة ٢٠٠٩، ليعلم.

## مدير الدعوى

لدى غرفة البحرين لتسوية المنازعات

استدراك						
نُشر في الجريدة الرسمية العدد (٣٤٧٩) المؤرخ في ٩ يوليو ٢٠٢٠، القرار رقم (٢٠) لسنة ٢٠٢٠ بتعديل بعض أحكام اللائحة التنفيذية لقانون الخدمة المدنية، الصادر بالمرسوم بقانون رقم (٤٨) لسنة ٢٠١٠، والصادرة بالقرار رقم (٥١) لسنة ٢٠١٢، وقد ورد في الجدول المرفق بالبند رقم (٦٩) منه الآتى:						
	الفصل من الخدمة	استغلال القُصَّر للمشاركة في أيَّ من الأنشطة المنصوص عليها بالبنود (٦٩،٦٥،٦٢،٦١) من هذا الجدول	69			
	والصحيح هو:					
	الفصل من الخدمة	استغلال التُصَّر للمشاركة في أيٍّ من الأنشطة المنصوص عليها بالبنود (٦٨،٦٤،٦١،٦٠) من هذا الجدول	69			
لذا لزم التنويه.						