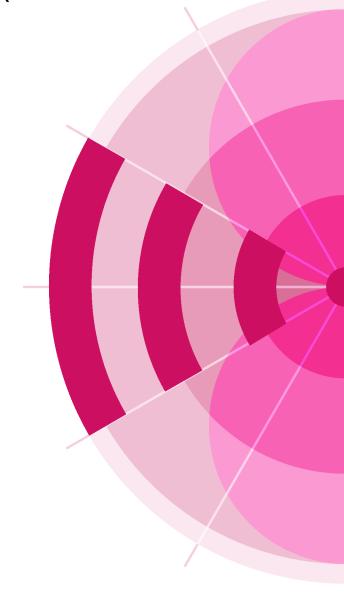


29TH WORLD RADIOCOMMUNICATION SEMINAR

30 November - 11 December 2020

BRINGING INTO USE OF GSO AND NGSO SATELLITE NETWORKS

Xavier LAURENSON
Space Services Department, BR, ITU



www.itu.int/go/wrs-20

#ITUWRS

OBJECTIVES

KEY ROLE OF ITU

• Rational, equitable, efficient and economical use

UNDERUSED SPECTRUM/ORBITAL POSITION

- Multiple filings submissions
- Fictitious recorded assignments

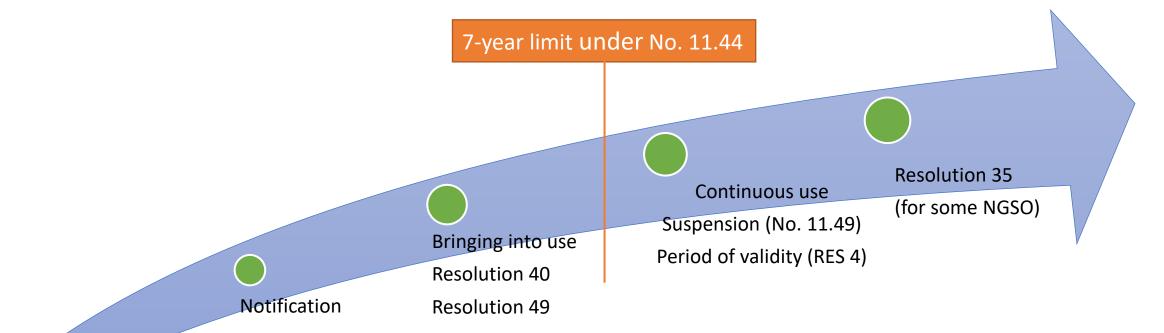
WRC-12 / WRC-15 / WRC-19

- Definition of the bringing into use for GSO (WRC-12)
- Penalty for late suspension information (WRC-15)
- Satellite hopping Resolution 40 (WRC-15)
- Request of clarification under No. 13.6 (WRC-12, WRC-15)
- Definition of the bringing into use for NGSO (WRC-19)
- Constellation deployment Resolution 35 (WRC-19)





LIFE SPAN OF A SATELLITE NETWORK FILING (Non-planned bands)







NOTIFICATION OF THE DATE OF BRINGING INTO USE

- First DBIU to be provided in the Notification submission (appendix 4 information)
- No more than 3 years from date of Notification (No. **11.25**, AP30/30A/5.1.3, AP30A/5.1.7, AP30B/8.1)
- No later than 7 years from the date of receipt of the API/CR (No. 11.44) / 8 years (Plan)
- DBIU is a foreseen date, if DBIU is later than the date of receipt of the notice
- Provisional entry in the Master Register (No. **11.47**)
- Actual DBIU shall be communicated not later than 30 days after the 7-year regulatory deadline
- The confirmation of a DBIU should be provided by correspondence to the Bureau
- E-communication / email should be used

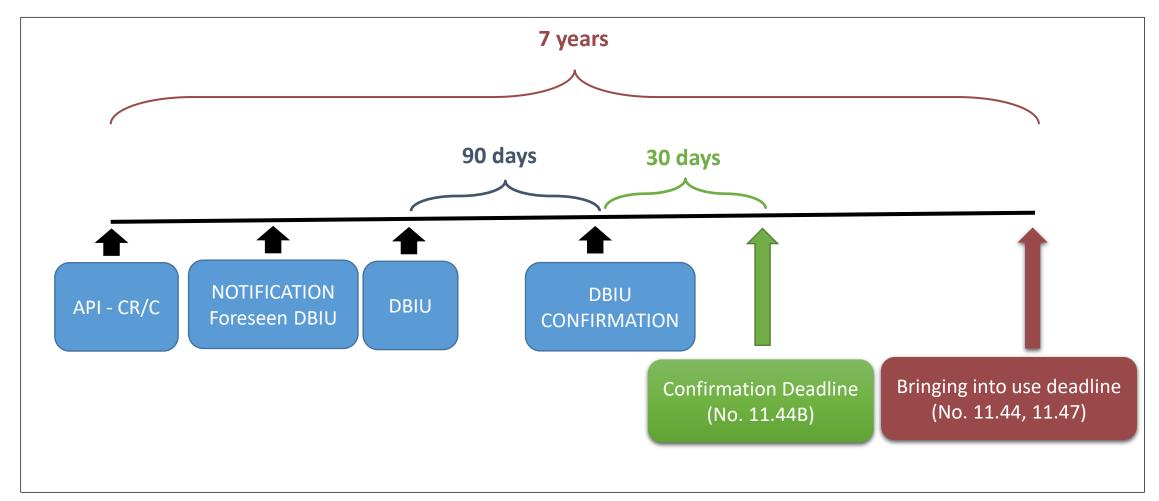


CONFIRMATION OF THE BRINGING INTO USE GSO

- when a space station in the geostationary-satellite orbit with the capability of transmitting or receiving that frequency assignment has been deployed and maintained at the notified orbital position for a continuous period of 90 days (No. 11.44B)
- Shall confirm the capability of transmitting and receiving
- Shall confirm the continuous period of 90 days
- Within 30 days from the end of the continuous period of 90 days
- Resolution 40 mandatory
- If DBIU more than 120 days prior to the date of receipt: continuous use from the DBIU until the date of receipt (No. 11.44B.2)



TIME FRAME (GSO - Non-planned bands)





CONFIRMATION OF THE BRINGING INTO USE NGSO / in FSS, MSS and BSS (WRC-19)

- a space station with the capability of transmitting or receiving that frequency assignment has been deployed and maintained on one of the orbital plane(s) of the non-geostationary satellite network or system for a continuous period of 90 days, irrespective of the notified number of orbital planes and satellites per orbital plane in the network or system (No. 11.44C)
- Shall confirm the capability of transmitting and receiving, on one of the orbital plane
- Shall confirm the continuous period of 90 days
- Shall identify the orbital plane number (No. 11.44C.4)
- Within 30 days from the end of the continuous period of 90 days
- If DBIU more than 120 days prior to the date of receipt: continuous use from the DBIU until the date of receipt (No. 11.44C.3)



CONFIRMATION OF THE BRINGING INTO USE NGSO / not in FSS, MSS or BSS / Earth as reference body (WRC-19)

• a space station with the capability of transmitting or receiving that frequency assignment has been deployed and maintained on one of the orbital plane(s) of the non-geostationary satellite network or system, irrespective of the notified number of orbital planes and satellites per orbital plane in the network or system (No. 11.44D)

- Shall confirm the capability of transmitting and receiving
- Identify the orbital plane number (No. 11.44D.3)



CONFIRMATION OF THE BRINGING INTO USE NGSO / not Earth as reference body (WRC-19)

• a space station with the capability of transmitting or receiving that frequency assignment has been deployed in accordance with the notification information (No. 11.44E)

Shall confirm the capability of transmitting and receiving



BIU - AVAIBILITY OF THE INFORMATION

PUBLICATION

- In PART II-S of the BRIFIC
- The only official information

SPACE SERVICES WEBPAGES

- List of frequency assignments brought into use
- For information only
- Some information not yet verified by the Bureau

| BUREAU DES RADIOCOM RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE | | SAT | RADIOCOMMUNICATIO | PARTIE PART PARTE | UNION INTE | RNACIONAL DE TELECOMUNICACIO INA DE RADIOCOMUNICACIONES II-S | NES © I.T.U. | | | | | |
|--|---|-------------------------------|--|--|----------------------|--|-------------------|---|--|---------|---|--|
| STATION TERRIENNE EARTH STATION ESTACION TERRENA | | | | BR FIC / DATE BR FIC / DATE BR FIC / FECHA | | 2822 / 21.06 | .2016 | | | | | |
| ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE US | Δ NOMINA | JDE NON L LONGI JD NOMI | 100E 50 W | NUMÉRO DIDENTIFICATI IDENTIFICATION NUMBER NÚMERO DE IDENTIFICAC | 3 | 1135001 | 38 | | | | | |
| RENSEIGNEMENTS REÇUS PAR LE B | UREAU LE / INFORMA | TION REG | ENED BY THE BUREAU ON / IN | FORMACIÓN RECIBIDA POR | R LA OFICIN | AEL 19.04.20 | 16 | | | | | |
| Confirmation de la date de mise en servi fréquence inscrites provisoirement dans stre du | ce des assignations de le Fichier de référence, | | onfirmation of the date of bringing ssignments provisionally recorded ider | nto use of frequency n the Master Register, | esignecio | sión de la fecha de puesta en servicio d nes de frecuencia inscritas con carácter nternacional de Frecuencias, con arreg | provisional en el | | | | | |
| X Numéro 11.47 du Règiement des | radiocommunications | x | No.11.47 of the Radio Regulat | ions | X No.1 | 1,47 del Reglamento de Radiocomun | icaciones | | | | | |
| 5 5.2.8 de l'Article 5 des Appendi | ices 30 et/ou 30A | _ | 6.5.2.8 of Article 5 of Appendi | ces 30 and/or 30A | 65.2 | 8 del Articulo 5 de los Apéndices 30 | vio 30A | | | | | |
| § 8.16 de l'Article 8 de l'Appendi | 310 | $^{-}$ | § 8.16 of Article 8 of Appendix | 100 | 501 | 6 del Artículo 8 del Apéndice 308 | | | | | | |
| | | + | 1 | | _ | | | | | | | |
| Assignations de fréquence inscrites dans | le Fichier de référence | _ | requency assignments recorded in | the Master Register | Asigna | B1a | B2 | BR7a | - | BR47 | | A2a |
| Suspension de l'utilisation au titre du | Suspension de l'utilisation au titre du Suspension of use under | | | Susper | Beam designation | Emi-Rcp | Group id. | Fred | quency band | d (MHz) | Date of bringing into | |
| Numéro 11.49 du Règlement des | radiocommunications | | No.11.49 of the Radio Regulat | ions | No | CMD | R | 113683268 | 13750 | | 14000 | 20.01.2016 |
| 6 5.2.10 de l'Article 5 des Appeni | dices 30 et/ou 30A | | 6 5.2.10 of Article 5 of Append | ices 30 and/or 30A | 9.5 | CALD | , A | 113683269 | 13750 | | 14000 | 20.01.2016 |
| § 8.17 de l'Article 8 de l'Appendic | n 310 | _ | § 8.17 of Article 8 of Appendix | 300 | 51 | | | 113683270 | 13750 | - | 14000 | 20.01.2016 |
| Remise on service au titre du | 20 240 | ٠. | esumption of use under | 740 | Remus | KR2R | R | 113683271 | 13780 | - | 14000 | 20.01.2016 |
| | | , | 1 | | | | | 113683272 | 13780 | - | 14000 | 20.01.2016 |
| Numéro 11.49 du Règlement des | radiocommunications | | No.11.49 of the Radio Regulat | ions | No | | | 113683273 | 13780 | - | 14000 | 20.01.2016 |
| § 5.2.10 de l'Article 5 des Appeni | dices 30 et/ou 30A | | § 5.2.10 of Article 5 of Append | ices 30 and/or 30A | 91 | | | 113683274 | 13780 | - | 14000 | 20.01.2016 |
| & 8.17 de l'Article & de l'Appendi | 310 | _ | 6 8.17 of Article 8 of Appendix | 100 | 51 | | | 113683275 | 13750 | - | 13770 | 20.01.2016 |
| g c. 17 de l'Addie e de l'Appendi | 39 340 | _ | ge. ir di xiaca a di xppanan | .760 | 8. | | | 113683276 | 13750 | - | 13770 | 20.01.2016 |
| Pour plus d'informations sur les dispr | ositions réglementaire | s et Fo | r more details on the regula | tory provisions and the | Para mi | | | 113683277 | 13750 | - | 13770 | 20.01.2016 |
| | oles utilisés dans c | ette ex | planation of the codes or symbol ase consult the Preface. | is used in this publication, | explicar publicar | | | 113683278 | 13750 | - | 13770 | 20.01.2016 |
| l'explication des codes ou symbo | | pe | ase consult the Prerace. | | putnicac | | | 113683279 | 13757 | - | 13793 | 20.01.2016 |
| Texplication des codes ou symbo publication, veuillez consulter la Préf | Mar. | | | | | | | 113683280 | 13757 | - | 13793 | 20.01.2016 |
| l'explication des codes ou symbo | <u></u> | _ | | | | | | | | | | 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 | 13757 | | 13793 | |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 | 13757 | - | 13793 | 20.01.2016 |
| l'explication des codes ou symbo | a.s | | | | | | | 113683281 113683282 113683283 | 13757 13780 | - 1 | 13793 14000 | 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 | 13757 13780 13780 | - | 13793 14000 14000 | 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 113683285 | 13757 13780 13780 13780 | - | 13793 14000 14000 14000 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | - | | | | | | 113683281 113683282 113683283 113683284 113683285 113683286 | 13757 13780 13780 13780 13780 | - | 13793 14000 14000 14000 14000 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 113683285 113683286 113683287 | 13757 13780 13780 13780 13780 13780 | | 13793 14000 14000 14000 14000 14700 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 113683285 113683286 113683287 113683288 | 13757 13780 13780 13780 13780 13780 13750 | - | 13793 14000 14000 14000 14000 13770 13770 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 113683285 113683286 113683287 113683288 113683289 | 13757 13780 13780 13780 13780 13780 13750 13750 | | 13793 14000 14000 14000 14000 13770 13770 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |
| l'explication des codes ou symbo | | | | | | | | 113683281 113683282 113683283 113683284 113683285 113683286 113683287 113683288 | 13757 13780 13780 13780 13780 13780 13750 | - | 13793 14000 14000 14000 14000 13770 13770 | 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 20.01.2016 |

http://www.itu.int/net/ITU-R/space/snl/listinuse/index.asp

SRS DATABASE

- Information for each group: table grp
- Fields d_inuse and f_biu

| Notice ID (SNS) | Satellite Name (SNL Part B) | ADM | ORG | Long_nom | Date of bringing into use | Status | Expiry Date for Bringing Into Use | Provision |
|--------------------|--------------------------------|---------|-----|----------|------------------------------|---------|--------------------------------------|-----------|
| up down | up down | up down | | up down | up down | up down | up down | up down |
| 111500243 | CSDRN-M | RUS | | 95 | 06.02.2019 | N | 06.02.2019 | 11.2 |
| 118500194 | DFH-5-01A | CHN | | 94.2 | 01.09.2018 | I | 16.09.2018 | 11.2 |
| 118500200 | INMARSAT-KA 83.5E | G | | 83.5 | 08.08.2017 | С | | 11.2 |
| 118560006 | MEASAT-91.5E-BSS | MLA | | 91.5 | 08.03.2019 | N | 08.03.2019 | 5.1.2 |
| 117500301 | NEW DAWN 34 | PNG | | 85 | 29.10.2017 | С | | 11.2 |
| 118500072 | N-SAT2-93E | J | | 93 | 15.12.2018 | N | 15.12.2018 | 11.2 |
| 118560010 | NSS-BSS 100E | HOL | | 100 | 03.08.2018 | С | | 5.1.2 |
| 118560011 | NSS-BSS 100E | HOL | | 100 | 03.08.2018 | С | | 5.1.6 |
| 118500185 | SE-KA-83.5E | NOR | | 83.5 | 08.08.2017 | С | | 11.2 |
| 118500045 | USLL-PAC3 | USA | | 92 | 20.11.2017 | С | | 11.2 |
| 118500046 | USLL-PAC4 | USA | | 100 | 17.01.2018 | С | | 11.2 |





SUSPENSION OF USE (No. 11.49, AP30/30A/5.2.10, AP30B/8.17)

SUSPENSION

- For a period of 3 years
- Inform the BR no later than **6 months** from the date of suspension
- Penalty for late suspension
- Publication in a PART II-S and on the web

RESUMPTION

- Information shall be communicated not later than 30 days after the end of suspension
- BBIU procedure like BIU procedure
- Resolution 40 for GSO
- Publication in a PART II-S and on the web

Penalty for late submission = Reduction of the 3-year suspension period by the delay of notification of the suspension (day to day reduction after 6 months)

Example: Date of suspension is 01.01.2020

Date of notification of suspension = 01.07.2021

Penalty = 1 year

The date limit of resumption is 01.01.2022 instead of 01.01.2023





SUSPENSION OF USE INFORMATION ON THE WEB

Information provided by Administrations
Official publications only in the BRIFIC

- Status of the suspension
- Planned and non-planned bands
- History with date of resumption
- http://www.itu.int/net/ITU-R/space/snl/listinuse/index.asp

| Notice ID (SNS) | Satellite Name (Link to SNL) | ADM | ORG | Long_nom | Status | Туре | Date of receipt of the suspension | Date of suspension | Date limit for the resumption | Date of resumption of operation | Provision |
|-----------------------|---------------------------------|---------|-----|----------|---------|------|-----------------------------------|--------------------|----------------------------------|---------------------------------------|-----------|
| up down | up down | up down | | up down | up down | | | up down | up down | | up down |
| 117500252 | KYPROS- APHRODITE-2 | CYP | | 90 | S | Т | 02.04.2018 | 28.12.2017 | 28.12.2020 | | 11.49 |
| 105500223 | DRTS-90.75E | J | | 90.75 | S | Т | 26.01.2018 | 31.07.2017 | 31.07.2020 | | 11.49 |
| 112500244 | N-SAT-90.75E | J | | 90.75 | S | Т | 26.01.2018 | 31.07.2017 | 31.07.2020 | | 11.49 |
| 115500060 | FYGEOSAT-99.5E | CHN | | 99.5 | R | Т | 19.06.2017 | 18.05.2017 | | 13.05.2018 | 11.49 |
| 316500227 | MEASAT-1A | MLA | | 91.5 | S | Р | 14.04.2017 | 15.03.2017 | 15.03.2020 | | 11.49 |
| 115500060 | FYGEOSAT-99.5E | CHN | | 99.5 | R | Т | 16.11.2015 | 22.05.2015 | | 11.12.2016 | 11.49 |
| 113500084 | JMCS-93E | J | | 93 | R | Т | 14.05.2015 | 19.11.2014 | | 25.02.2017 | 11.49 |
| 113500113 | N-SAT-93E | J | | 93 | R | Т | 14.05.2015 | 19.11.2014 | | 25.02.2017 | 11.49 |
| 111500243 | CSDRN-M | RUS | | 95 | R | Р | 24.12.2012 | 29.11.2012 | | 28.04.2014 | 11.49 |



RESOLUTION 40 (WRC-15)

Bringing (back) into use of GSO satellite networks at different orbital locations using one space station.



Inform if the space station has previously been used within the last 3 years. In case previously used, to provide:

- Last orbital location used for BIU
- Satellite network associated at the previous position
- The date on which it was not longer at the previous position

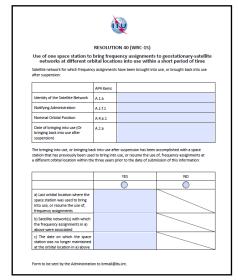


Bringing (back) into use will be accepted only if information requested by the Resolution 40 are provided



RESOLUTION 40 INFORMATION ON THE WEB

- Information on use of already in-orbit satellite
- Planned and non-planned bands
- http://www.itu.int/net/ITU-R/space/snl/sat_relocation/index.asp
- Form available on-line





Form to submit Resolution 40 data to the Bureau

| Satellite name | AD M | ORG | Orbital position | DBIU | Provisions | satellite relocation | Previous orbital position | Previous associated satellite network | Date relocated |
|--------------------------------------|----------------|-----|---------------------|------------|-------------|-------------------------|------------------------------|---------------------------------------|-------------------|
| <u>up down</u> | up <u>down</u> | | <u>up down</u> | up down | | | | | |
| USGAE-6M | USA | | -120 | 01.11.2015 | 11.2 | NO | | | |
| USABSS-30 | USA | | -110 | 30.12.2015 | 5.1.2/5.1.6 | NO | | | |
| MEXSAT113 L-CEXT- | MEX | | -113 | 02.10.2015 | 11.2 | NO | | | |
| GIBSAT-129W | G | | -129 | 19.08.2015 | 11.2 | YES | -103 | USASAT-24F, USASAT- 35H | 08.07.2015 |
| <u>CANSAT(107.3W)-</u> <u>XKA</u> | CAN | | -107,3 | 28.06.2015 | 11.2 | NO | | | |
| CANSAT(107.3W)-L | CAN | | -107,3 | 10.01.2016 | 11.2 | YES | -106,5 | MSAT | 04.10.2015 |





RESOLUTION 35 (WRC-19)

BIU of NGSO in FSS, MSS, BSS = one satellite in one orbital plan

Filing to satellite systems composed of thousands of non-GSO satellites



Milestone-based approach

balance between spectrum warehousing, coordination mechanisms and operational requirements



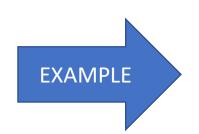
RESOLUTION 35 (WRC-19) - APPLICATION

| | | TABLE | | | | | |
|--|--|-------------------------------------|-------------------------------------|--|--|--|--|
| Frequency band: and services for application of the milestone-based approach | | | | | | | |
| Band: (GHz) | Space radiocommunication services | | | | | | |
| (, | Region 1 | Region 2 | Region 3 | | | | |
| 10.70-11.70 | FIXED-SATELLITE | FIXED-SATELLITE (space-t | o-Earth) | | | | |
| | (space-to-Earth) FIXED-SATELLITE | | | | | | |
| | (Earth-to-space) | | | | | | |
| 11.70-12.50 | FIXED-SATELLITE (space-t | Tdi | | | | | |
| 12.50-12.70 | FIXED-SATELLITE (SPACE) | FIXED-SATELLITE (space- | BROADCASTING- | | | | |
| 12.30-12.70 | (space-to-Earth) | to-Earth) | SATELLITE | | | | |
| | FIXED-SATELLITE | | FIXED-SATELLITE | | | | |
| | (Earth-to-space) | | (space-to-Earth) | | | | |
| 12.70-12.75 | FIXED-SATELLITE | FIXED-SATELLITE (Earth- | BROADCASTING- | | | | |
| | (space-to-Earth) | to-space) | SATELLITE | | | | |
| | FIXED-SATELLITE (Earth-to-space) | | FIXED-SATELLITE (space-to-Earth) | | | | |
| 12.75-13.25 | FIXED-SATELLITE (Earth-t | | (space-to-carm) | | | | |
| 13.75-14.50 | | | | | | | |
| 17.30-17.70 | FIXED-SATELLITE (Earth-1 FIXED-SATELLITE | | FIXED-SATELLITE | | | | |
| 17.30-17.70 | (space-to-Earth) | Nome | (Earth-to-space) | | | | |
| | FIXED-SATELLITE | | (Late-to-space) | | | | |
| | (Earth-to-space) | | | | | | |
| 17.70-17.80 | FIXED-SATELLITE | FIXED-SATELLITE (space- | FIXED-SATELLITE | | | | |
| | (space-to-Earth) | to-Earth) | (space-to-Earth) | | | | |
| | FIXED-SATELLITE | | FIXED-SATELLITE | | | | |
| | (Earth-to-space) | | (Earth-to-space) | | | | |
| 17.80-18.10 | FIXED-SATELLITE (space-t FIXED-SATELLITE (Earth-t | | | | | | |
| 18 10-19 30 | FIXED-SATELLITE (space-t | | | | | | |
| 19 30-19 60 | | o-Earth) FIXED-SATELLITE (E | | | | | |
| | | | carta-to-space) | | | | |
| 19.60-19.70 | FIXED-SATELLITE (space-t | | | | | | |
| 19.70-20.10 | FIXED-SATELLITE (upace-to-Earth) | FIXED-SATELLITE (space-to-Earth) | FIXED-SATELLITE (space-to-Earth) | | | | |
| | (space-to-Entity) | MOBILE-SATELLITE | (space-to-Larm) | | | | |
| | | (space-to-Earth) | | | | | |
| 20.10-20.20 | FIXED-SATELLITE (space-t | -Earth) | | | | | |
| | MOBILE-SATELLITE (space | -to-Earth) | | | | | |
| 27.00-27.50 | | FIXED-SATELLITE (Earth-to | r-space) | | | | |
| 27.50-29.50 | FIXED-SATELLITE (Earth-t | o-space) | | | | | |
| 29.50-29.90 | FIXED-SATELLITE (Earth- | FIXED-SATELLITE | FIXED-SATELLITE | | | | |
| | to-space) | (Earth-to-space) | (Earth-to-space) | | | | |
| | | MOBILE-SATELLITE | | | | | |
| 29.90-30.00 | | (Earth-to-space) | | | | | |
| 29.90-30.00 | FIXED-SATELLITE (Earth-t MOBILE-SATELLITE (Earth- | | | | | | |
| 37.50-38.00 | FIXED-SATELLITE (ENG | | | | | | |
| | | , | | | | | |
| 38.00-39.50 | FIXED-SATELLITE (space-t | o-carda) | | | | | |

| 426 CMR19/2000-E | | | | | | | |
|---------------------|------------------------------|----------|--|--|--|--|--|
| Sp | ace radiocommunication servi | ces | | | | | |
| Region 1 | Region 2 | Region 3 | | | | | |
| SATELLITE (space-to | | | | | | | |
| E-SATELLITE (upace- | to-Earth) | | | | | | |
| SATELLITE (space-to | -Earth) | | | | | | |
| CASTING-SATELLI | TE . | | | | | | |

APPLIES TO:

All Non-GSO satellite systems in the following bands and services and brought into use (No.11.44 and No.11.44C)

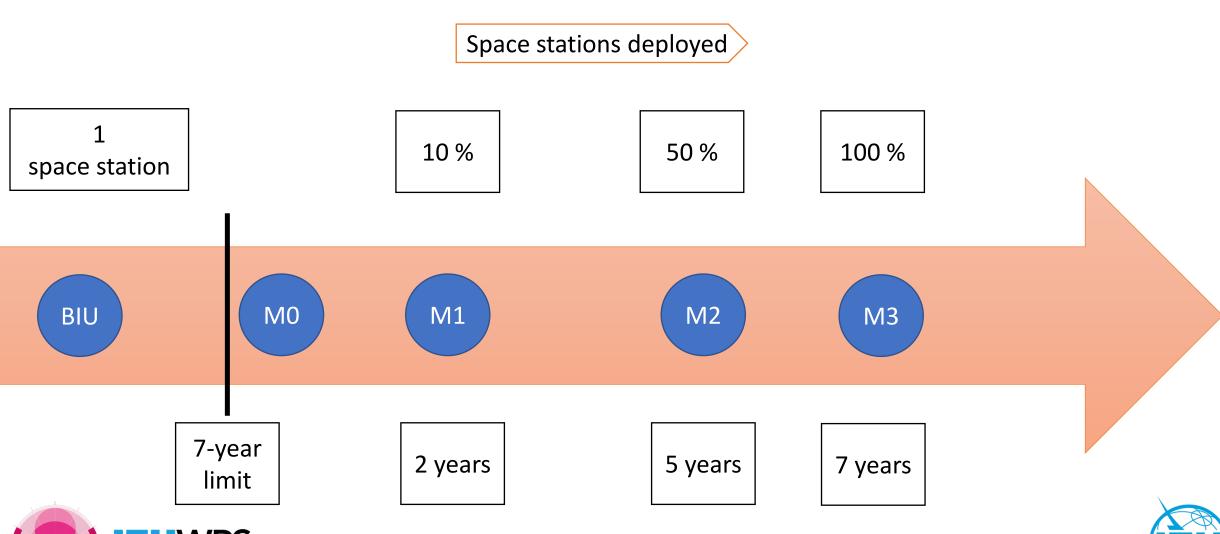


| Frequency | Space radiocommunication services | | | | | | | |
|-------------|--|----------------------------------|---|--|--|--|--|--|
| bands (GHz) | Region 1 | Region 2 | Region 3 | | | | | |
| 10.70-11.70 | FIXED-SATELLITE (space-to-Earth) (space-to-Earth) FIXED-SATELLITE (carth-to-space) | | | | | | | |
| 11.70-12.50 | FIXED-SATELLITE (space-to-Earth) | | | | | | | |
| 12.50-12.70 | FIXED-SATELLITE (space-to-Earth) FIXED-SATELLITE (Earth-to-space) | FIXED-SATELLITE (space-to-Earth) | BROADCASTING- SATELLITE FIXED-SATELLITE (space-to-Earth) | | | | | |
| 12.70-12.75 | FIXED-SATELLITE (space-to-Earth) FIXED-SATELLITE (Earth-to-space) | FIXED-SATELLITE (Earth-to-space) | BROADCASTING- SATELLITE FIXED-SATELLITE (space-to-Earth) | | | | | |





RESOLUTION 35 (WRC-19) - TIMEFRAME



RESOLUTION 35 (WRC-19) - PROCESS

Case 1: 7-year limit before 1 January 2021

Case 2: 7-year limit after 1 January 2021

Initial deployment information

• Case 1: 01.02.2021

Case 2: 7-year-limit + 30 days or DBIU + 120 days (latest)

3 Milestones (Case 1 / Case 2)

• M1: 01.02.2023 / 7 year-limit + 2 years + 30 days: **10**%

• M2: 01.02.2026 / 7 year-limit + 5 years + 30 days: **50**%

• M3: 01.02.2028 / 7 year-limit + 7 years + 30 days: **100**%



Failure to meet a Milestone:

Reduction of the number of satellite in the system



RESOLUTION 35 (WRC-19) - SUBMISSION

E-submission system: Online capture / XML upload

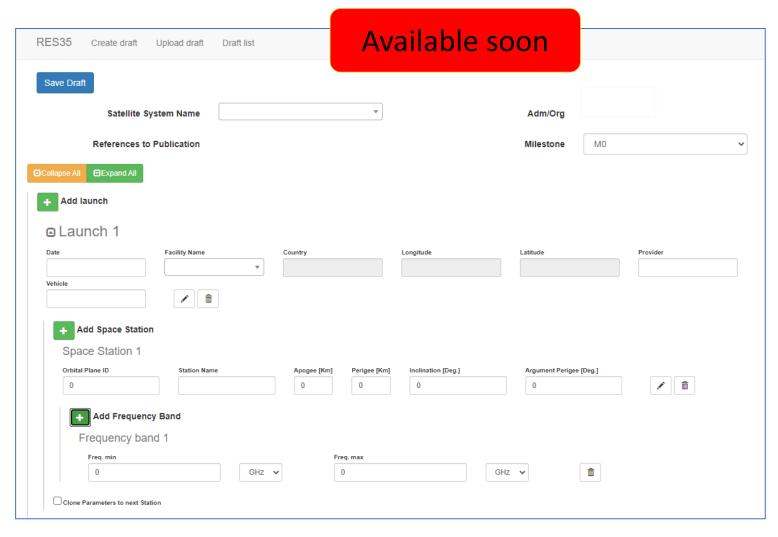
Satellite system information

Launch information

Space station characteristics

Frequency bands

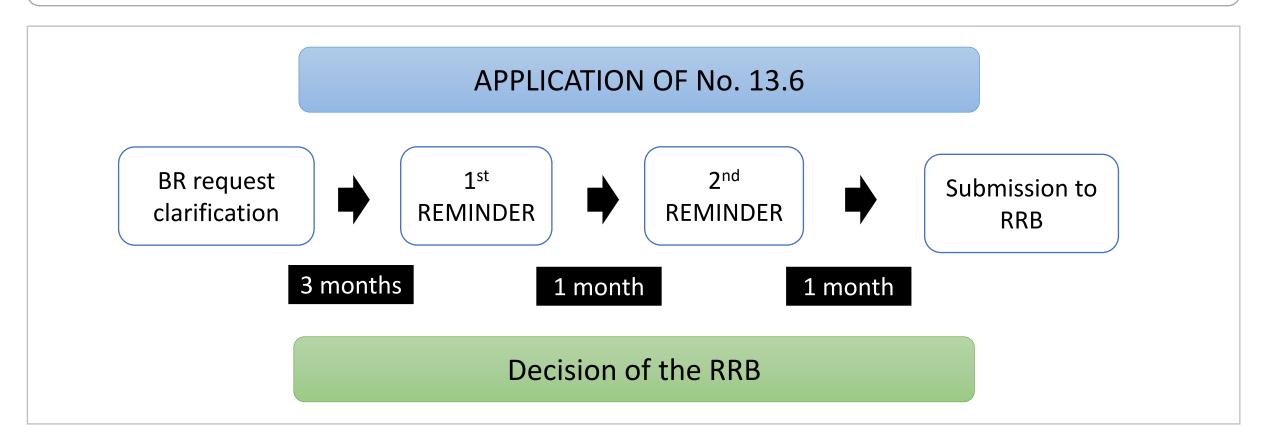






VERIFICATION OF THE BIU AND CONTINUOUS USE (No. 13.6)

From reliable available information: Not brought into use (11.44.3, 11.44B.1, 11.44C.2, 11.44D.2 and 11.44E.1), no longer in use



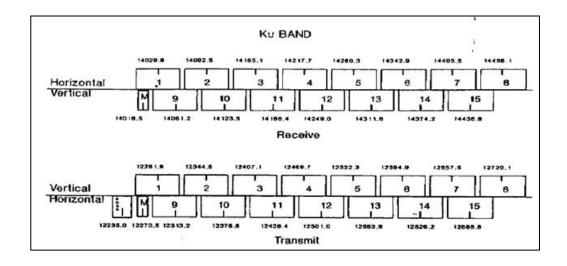


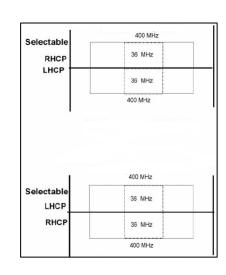
Recorded frequency assignments will continue to be taken into account by the Bureau when conducting its examinations until the Board's decision

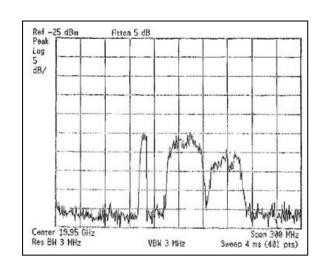


APPLICATION OF ARTICLE 13.6

Administration should respond as completely as practicable (Minutes of WRC-15) Evidence to be provided for the whole frequency range











Thank you!

ITU - Radiocommunication Bureau

Questions to brmail@itu.int or xavier.laurenson@itu.int



