

ITUWRS

GENEVA2024

2-6 December 2024
Geneva, Switzerland



ITU World Radiocommunication Seminar

Frequency Plans for Terrestrial
Broadcasting services

2-6 December 2024, Geneva, Switzerland

OVERVIEW

- ITU Regions
- Regional Plans
- Regional Plans concerning TV broadcasting
- Regional Plans concerning sound broadcasting
- Article 4: Modifications to the Plans
- Useful links

Regional agreements for:

- specific frequency bands
- specific region/area
- specific services

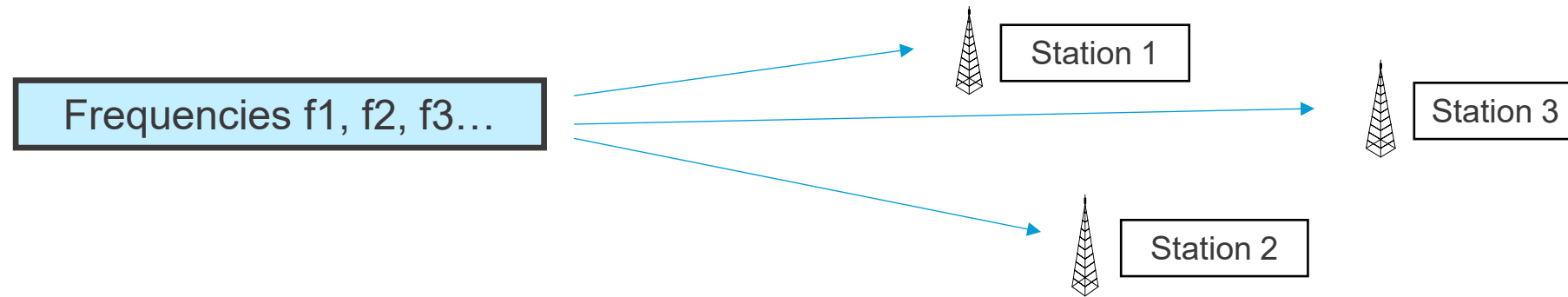
Types of Plans:

- Assignment Plans (stations)
- Allotment Plans (geographical areas)

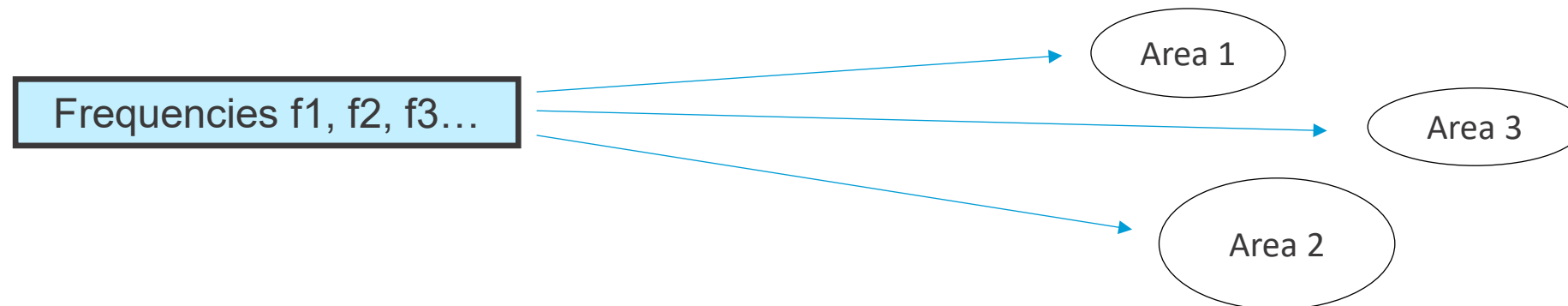
Adopted by Regional Conferences: technical criteria + frequency plans



- **Assignment Plan:** frequencies are assigned to stations



- **Allotment Plan:** frequencies are assigned to geographical areas



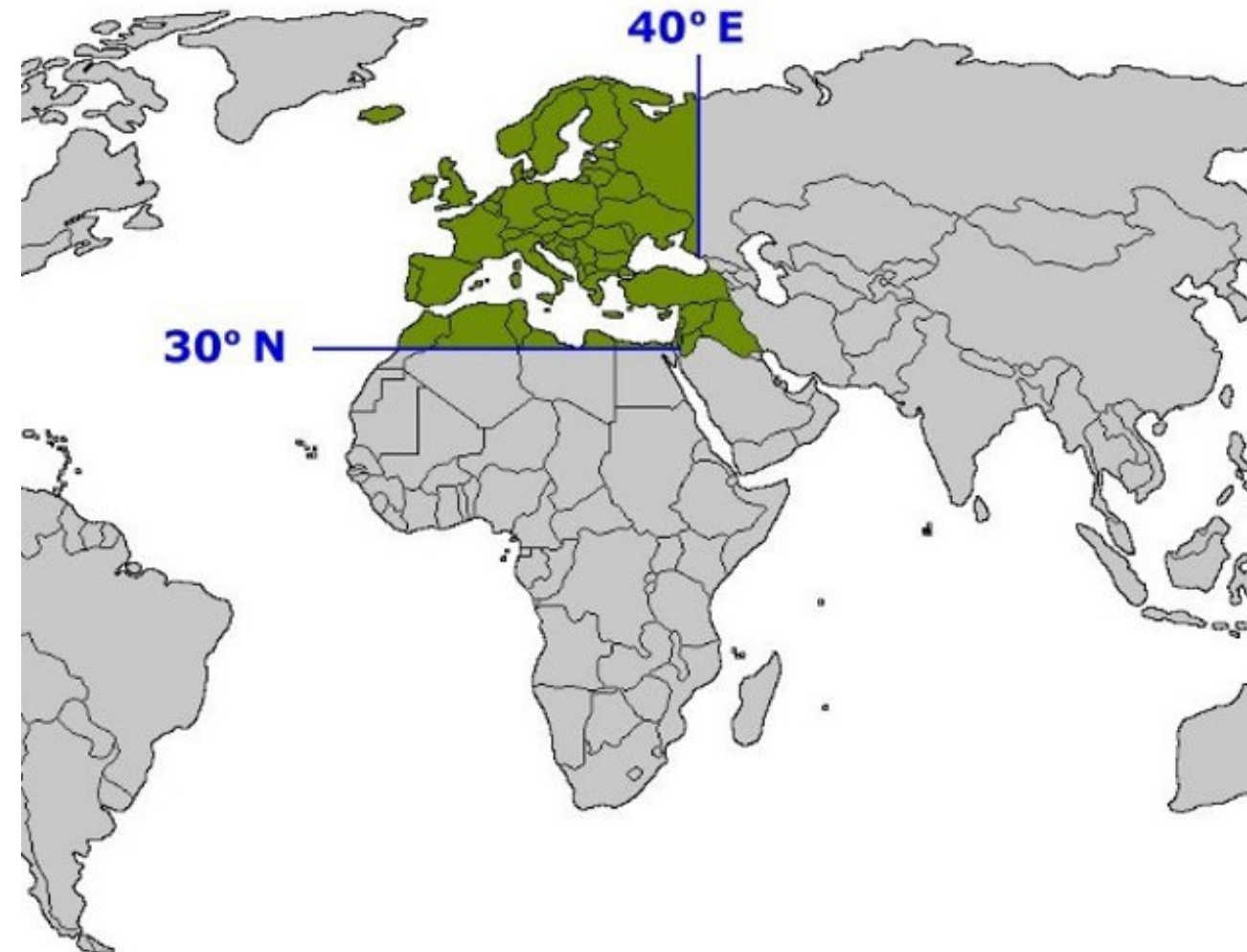
Regional Plans (in force) that concern television broadcasting:

- Stockholm 1961 modified in 2006 (ST61)
- Geneva 1989 modified in 2006 (GE89)
- Geneva 2006 (GE06)



Stockholm 1961 modified in 2006 (ST61)

- Modified in 2006: the bands 174-230 MHz and 470-862 MHz were transferred to GE06 Plan
- Assignment Plan
- Region: European Broadcasting Area (EBA)
- Bands: Band I: 47-68 MHz; Band II: 87.5-100 MHz; Band III: 162-170 MHz
- Services: Broadcasting (sound and television)



Geneva 1989 modified in 2006 (ST61)

- Modified in 2006: the bands 174-230 MHz and 470-862 MHz were transferred to GE06 Plan
- Assignment Plan
- Region: African Broadcasting Area(ABA)
- Bands: Band I: 47-68 MHz; Band III: 230-238 and 246-254 MHz
- Services: Broadcasting (television only)



GE06 (Digital Plan):

- There were 2 plans (analogue and digital). On 17 June 2020 the analogue plan ceased to exist
- Assignment and allotments Plan (Plus a list of frequency assignments for other primary services)
- Region: Region I, except the territories of Mongolia and the Islamic Republic of Iran
- Bands: Band III: 174-230 MHz* - (*for Morocco 170-230 MHz), Band IV: 470-582 MHz, Band V: 582-862 MHz
- Services: Broadcasting (digital sound and television) and Other primary services



Regional Plans (in force) that concern sound broadcasting:

- Stockholm 1961 modified in 2006 (ST61)
- Geneva 1975 (GE75)
- Rio de Janeiro 1981 (RJ81)
- Geneva 1984 (GE84)
- Rio de Janeiro 1988 (RJ88)
- Geneva 2006 (GE06)

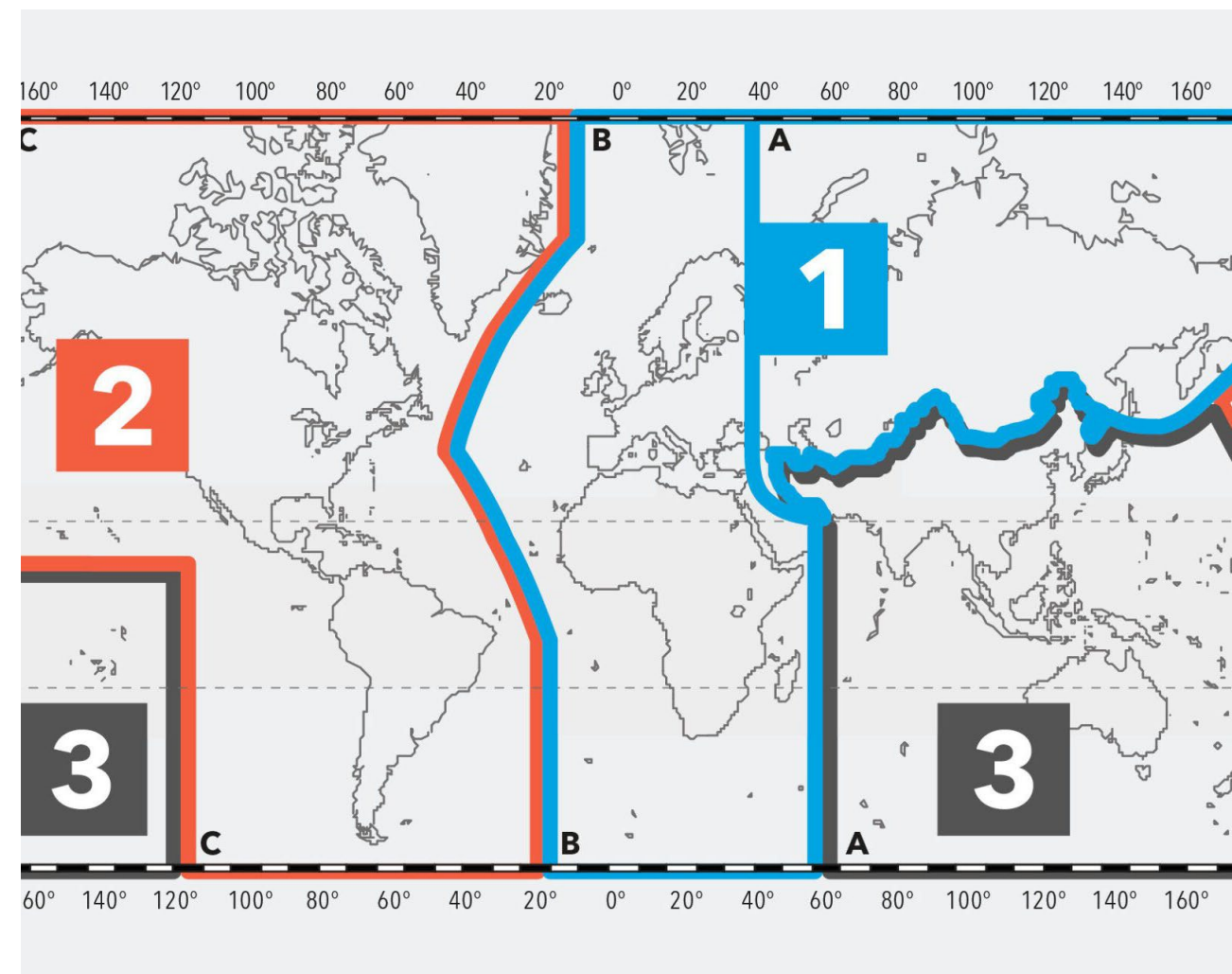


Table 1: Frequency bands and Regions

Band	Frequency band	Region	Plan
LF	148.5 – 283.5 kHz	R1	GE75
MF	526.5 – 1606.5 kHz	R1 and R3	GE75
	535 – 1605 kHz	R2	RJ81
	1605 – 1705 kHz	R2	RJ88
VHF	47 – 68 MHz	EBA	ST61
	87.5 – 108 MHz	R1+IRN+AFG	GE84
	(170 MRC) 174 – 230 MHz	R1-MNG+IRN	GE06

Table 1: Frequency bands and Regions

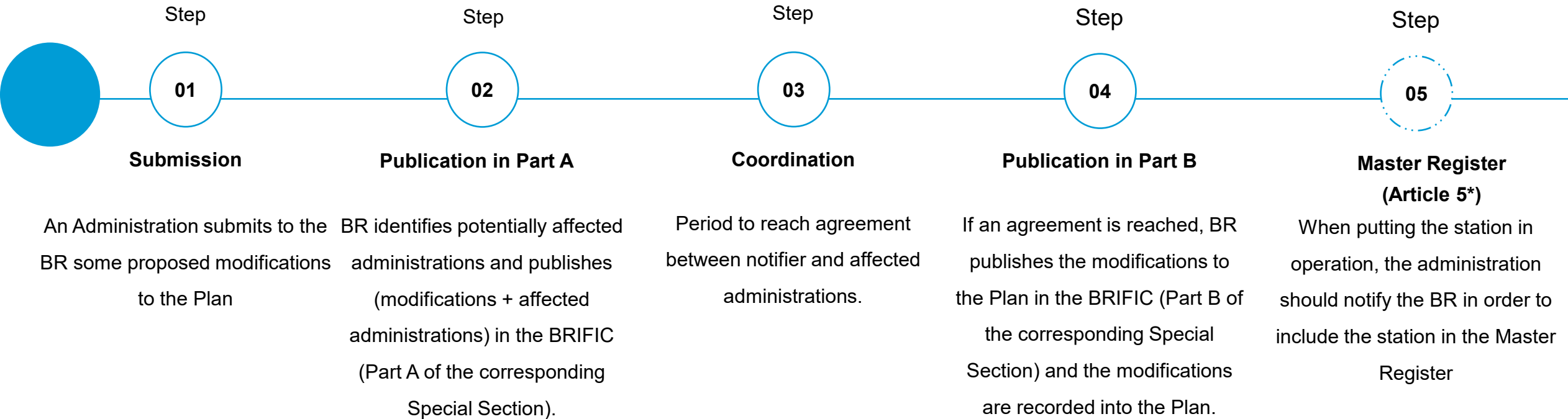
Plan	Assignments/Allotments
Stockholm-61	Assignments only
Geneva-75	Assignments only
Rio de Janeiro-81	Assignments only
Geneva-84	Assignments only
Rio de Janeiro-88	Allotments only
Geneva-06	Assignments and Allotments




Regional Plans (in force) that concern sound broadcasting:


- Modify the technical characteristics of an assignment/allotment already existing in the Plan.
- Add an assignment/allotment to the Plan.
Supress an assignment/allotment from the Plan.
- GE06: Add to the Plan an assignment stemming from an allotment already existing in the Plan (converted assignment).





* Art. 7 for GE84

eTools (All TIES users) 




eTools offers calculation on-demand in the scope of the GE06, GE84 and RJ81 agreements for testing purposes.

[Go to eTools >>](#)

- GE06D Article 4 Plan modification (Coordination and Conformity Examination)
- GE06D compatibility analysis (incl. ATU and ASMG regional planning)
- CA_Compat Compatibility Analyses
- GE84 Optimization and Compatibility Analyses
- RJ81 Article 4 Plan modification

ePropagation


ePropagation: Online platform for propagation prediction calculations according to ITU-R recommendations



[Go to ePropagation >>](#)


Field Strength Calculations on-demand

- [ITU-R P.1812-6](#)
- [ITU-R P.1546-6](#)

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eTerrestrial: an online Portal for terrestrial services

The eTerrestrial platform provides **secure web-based services to TIES users**. The following tools are available:

eMIFR

eMIFR: Online query system of the MIFR for all terrestrial services


[Go to eMIFR >>](#)



eValidation

eValidation: Validation of frequency notices before their official submission via WISFAT


[Go to eValidation >>](#)



WISFAT

WISFAT: Web Interface for Submission of Frequency Assignments/Allotments for Terrestrial Services


[Go to WISFAT >>](#)



eBroadcasting

eBroadcasting Portal: Online platform for broadcasting services


[Go to eBroadcasting >>](#)



eFXM(Fixed/Mobile)

eFXM(Fixed/Mobile): Online platform for Fixed and Mobile services


[Go to eFXM >>](#)



ePropagation

ePropagation: Online platform for propagation prediction calculations according to ITU-R recommendations

[Go to ePropagation >>](#)



USEFUL LINKS

- FMTV Frequency Plans:
www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/FMTV.aspx
- LFMF Frequency Plans:
www.itu.int/en/ITU-R/terrestrial/broadcast/Pages/LFMF.aspx
- Online Broadcasting Services and Software:
<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting>

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or brbcd@itu.int