



GE84 Agreement

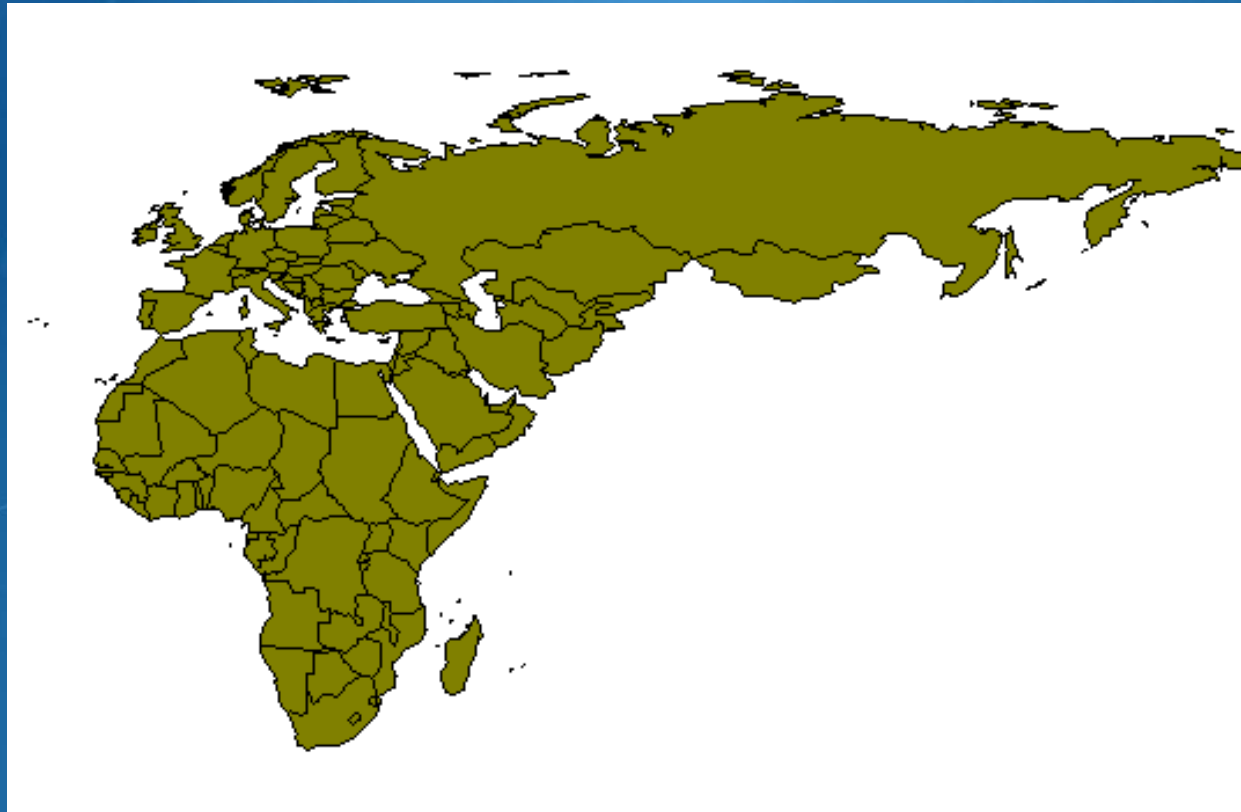
VHF-FM Sound Broadcasting

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Outline

- Planning Area
- Frequency band
- Features of the Agreement
- How to notify
- Conclusions

Planning Area



Frequency Band

- 87.5 MHz – 108 MHz

GE84 in summary

- In force 1 July 1987 (article 13)
 - 51 168 frequency assignments
- Today 72 458 assignments

Coordination requirements

- Other VHF-FM sound broadcasting stations
- ST61 television stations in the band 87.5 – 100 MHz
- Fixed and mobile service stations
- Aeronautical radionavigation service above 108 MHz

COORD with sound broadcasting stations

- Distance to nearest border < required coordination distances, based on:
 - ERP
 - Effective antenna height
 - Propagation Path (land, warm and cold seas and areas of super refractivity)
- Tables 4.1- 4.4 of Chapter 1 of Annex 4 of the Agreement.

COORD with other sound broadcasting stations

- Extract from table 4.1

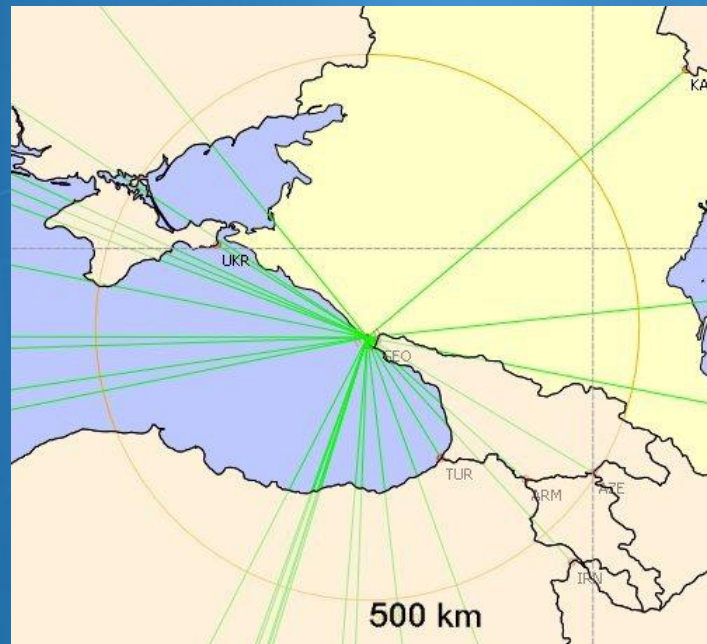
Effective radiated power		Effective antenna height (m)							
		10	37.5	75	150	300	600	1200	1800
dBW	W	Coordination distances (km)							
55	300k	520	520	530	540	560	600	630	670
50	100k	460	460	470	490	510	540	580	610
45	30k	410	410	420	430	450	480	520	560
40	10k	350	350	370	380	400	430	470	500

COORD with television stations (87.5-100 MHz)

- Required coordination distances
 - Corrected ERP (depending on frequency separation between FM and TV frequency carriers)
 - Propagation path
- Tables 4.5 - 4.8 of Chapter 2 of Annex 4 of the Agreement
- Very TV few assignments left in this band.

COORD with aeronautical radionavigation services

- Distance to the nearest point on the boundary < 500 km



COORD with land mobile and fixed service stations

- Field strength calculated at the nearest point on the boundary
- Limits of normally accepted interfering field strengths depend on
 - polarisation of the FM service(4.3.7.3-4.3.7.6)

“Quick” modification procedure

- No agreement required if modifications involve
 - Less interference – lower ERP/site
 - Distance to border < coordination limits
 - Small change in site location
 - 15 km ERP \geq 1kW
 - 5 km < 1kW

Modification procedure

- BR publishes modifications in Part A including names of potentially affected administrations
- Administrations have 100 days to comment
- BR send reminders at 50 and 70 days from the date of publication
- No comment = **agreement**

Modification procedure (2)

- If no objection received, notifying administration must request to have modifications recorded in the Plan
 - **On request**, Bureau publishes in Part B of a special section
 - Assignment recorded in the Plan
- No end date for modifications (not yet recorded in the Plan, >14000)

Which notice form?

- T01

- Plan modification
- MIFR notification

- TB2

- MIFR notification with identical characteristics as the assignment in the Plan

Thank you for your attention!

Questions?

BCD software and exercises:

<http://www.itu.int/ITU-R/go/terrestrial-software/en>