

ITU TSD/BCD activities in the introduction of digital broadcasting

ITU-D Regional Development Forums 2010 for the African region Banjul, The Gambia 14 - 16 July 2010

Overview



LF/MF bands

HF bands

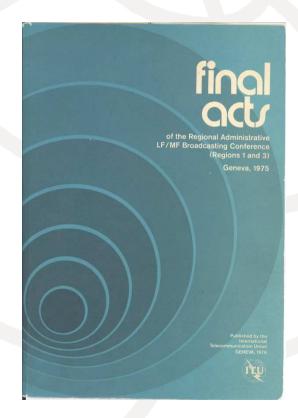
Band II

Bands III, IV and V

BCD Web-based tools



LF/MF Bands





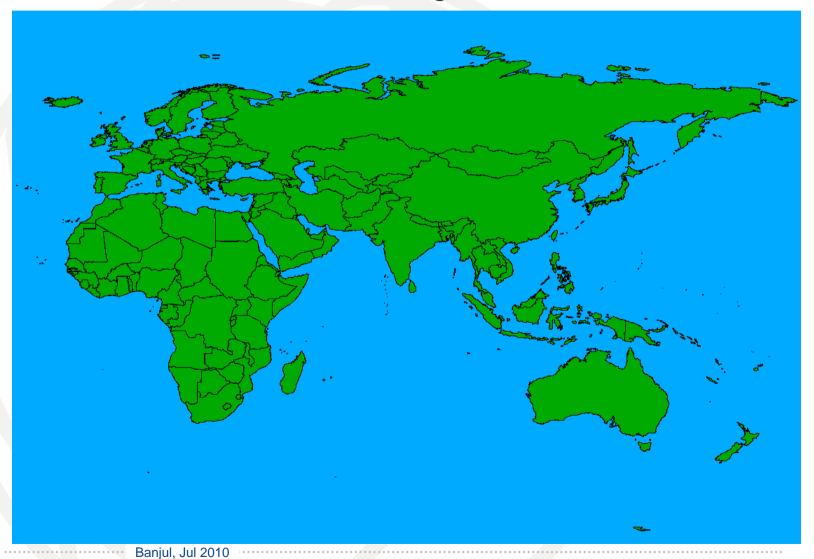
LF/MF Bands

- Governed by GE75 Regional Agreement
- LF 150 285 kHz
- MF 525 1 605 kHz
- Digital modulation possible under:
 - RRB decision CCRR/20 of December 2002
 - Reduction of EMRP by 7 dB w.r.t. the analogue Plan assignment

LF/MF Bands

GE75 Planning Area







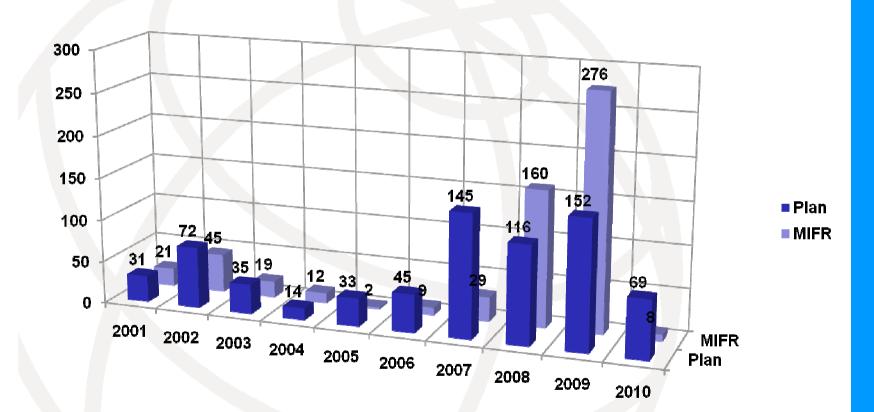
LF/MF Bands - implementation

- Software tools in process of review:
 - Increased functionality
 - Release to membership
- Candidate standards ITU-R BS.1514:
 - DRM30
 - IBOC-DSB
- One digital notification to date



LF/MF broadcasting submission/notifications

International
Telecommunication
Union







HF Bands



International Telecommunication Union

HF Bands

- Governed by Art. 12 of the RR (WRC-97)
- Several bands 5 900 26 100 kHz
- Digital modulation possible under:
 - ➤ Res. 517 of WRC-03 Introduction of digital modulation in the bands 5 900 26 100 kHz
 - > Res. 543 of WRC-03 Protection ratios



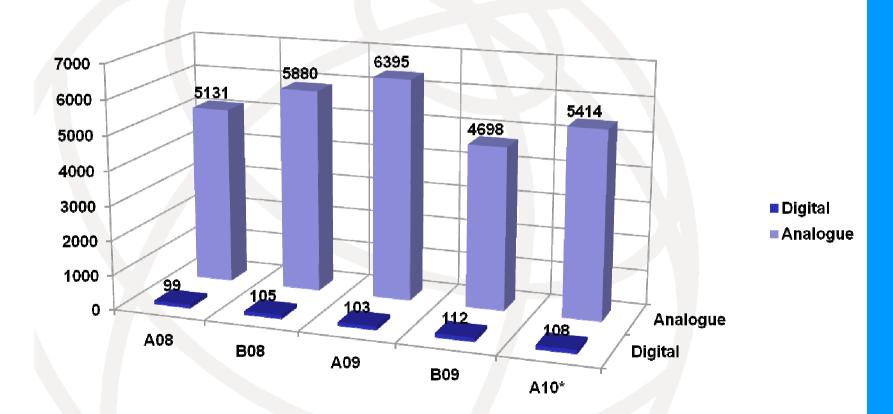
HF Bands – implementation

- HFBC software downloadable from BCD website on HF – includes WRC-2003 decisions
- Subscribe to CDROM with schedules
- Submit requirements per season
- Negotiate in coordination meetings

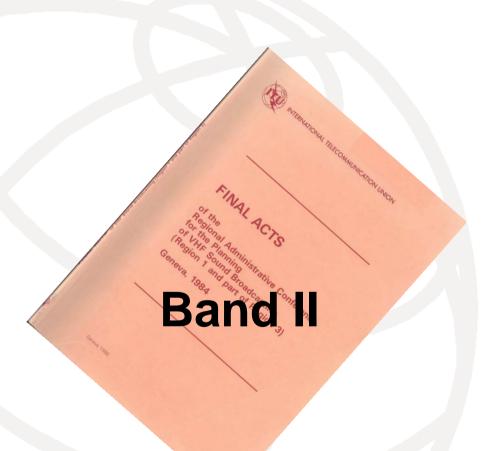


HF broadcasting requirements

International Telecommunication Union







Band II



- Governed by GE84 Regional Agreement
- 87.5 108 MHz
 - > FM sound broadcasting band
 - > 100 kHz channelisation arrangement
- Digital modulation possible under:
 - > 3.1 of Chapter 3 to Annex 2 of GE84

Band II

GE84 Planning Area





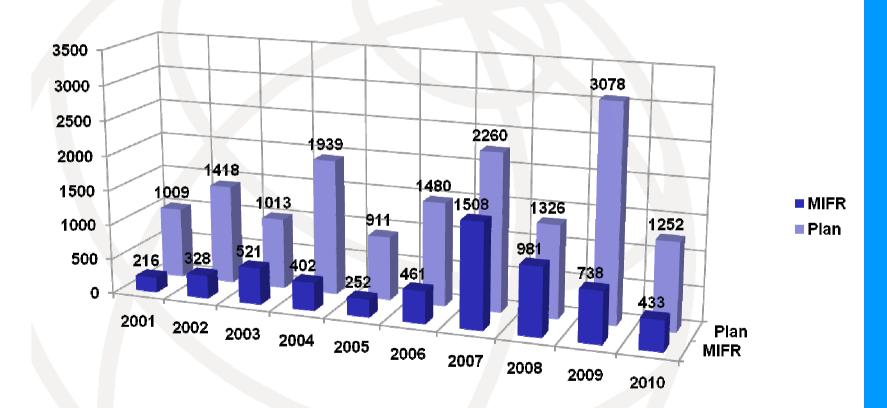
Band II - implementation

- GE84 software currently only for analogue modulation
- Bands extremely congested in large parts of the planning area
- Review of ERP reduction requirements of digital assignments notified under analogue Plan assignment
- Candidate standards being tested by membership:
 - > DRM+
 - FMeXtra
 - HD Radio
- No digital notifications to date



GE84 Plan modifications and notifications

International
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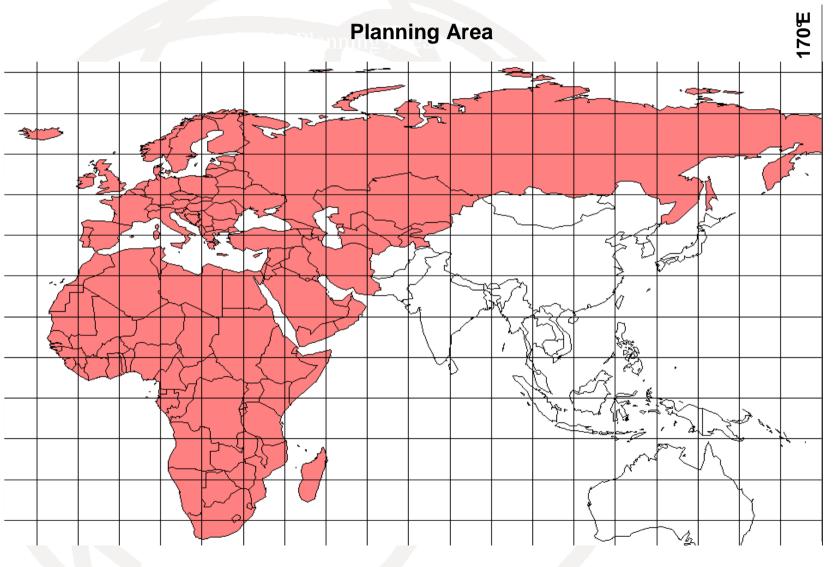
GE06 Bands

- 174 230 MHz (Band III)
 - > 7 and 8 MHz channelisation arrangements
- 470 862 MHz (Bands IV/V)
 - > 8 MHz channelisation arrangement
- Adopted planned standards DVB-T and T-DAB
- Main activity i.t.o. digital terrestrial broadcasting in Region 1



GE06 Bands







International
Telecommunication
Union

GE06 Bands - implementation

- Coordination and conformity tools
 - Standalone and web-based
- Rules of Procedure in order to implement Final Acts
- Implementation of alternative standards under envelope of Plan entries (considered by some membership countries in GE06 Planning Area):
 - ➤ T-DAB → DAB+ and T-DMB
 - DVB-T → DVB-T2 and ISDB-T







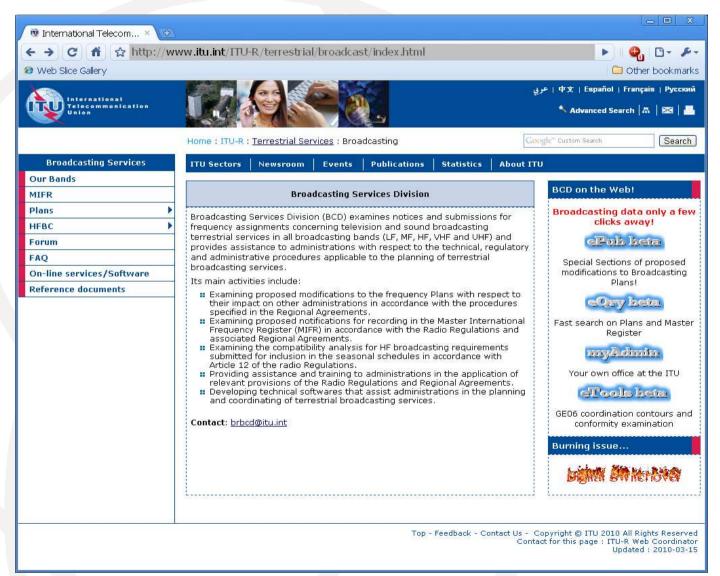
BCD web-based tools







http://www.itu.int/ITU-R/terrestrial/broadcast/index.html



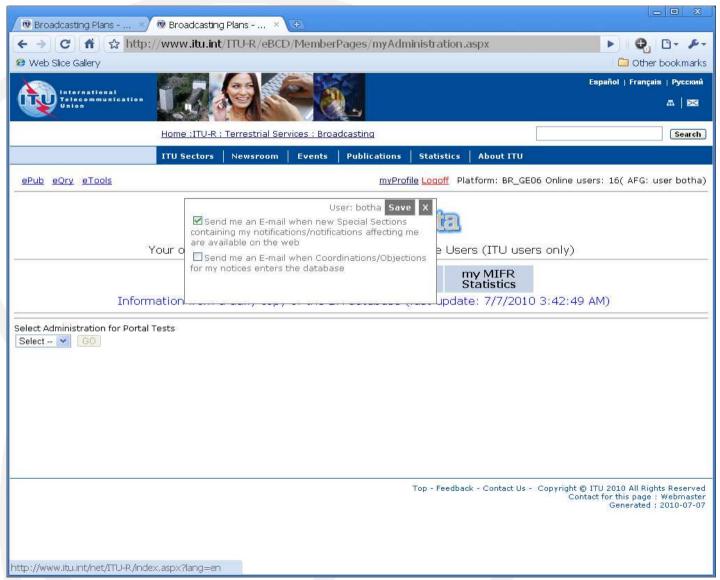
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Thank you Merci beaucoup

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