



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

Geneva, Switzerland

e-Terrestrial platform

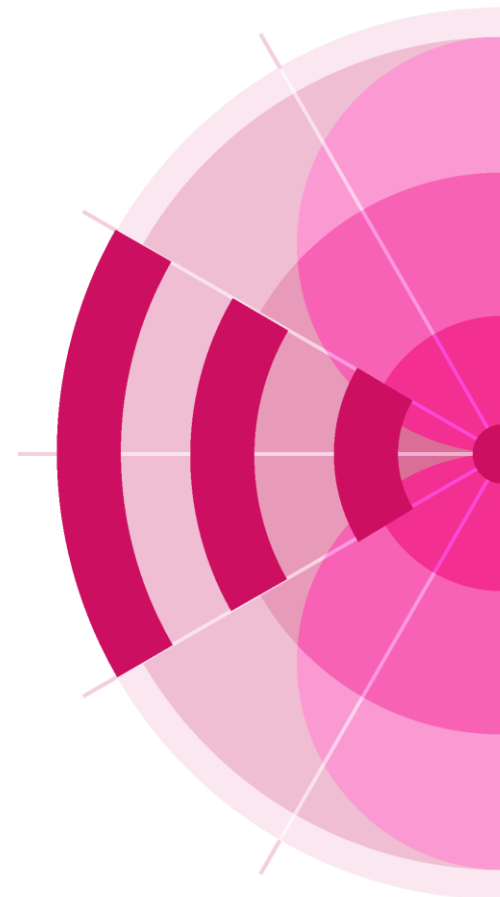
Online tools and electronic communication
means for terrestrial services

Andrea Manara

Broadcasting Service Division

www.itu.int/go/wrs-22

#ITUWRS



- **Integrated eTerrestrial platform**
- **eBroadcasting platform for broadcasting services**
 - eQuery, ePub, eTools, myAdmin
- **eMIFR, ePropagation for all terrestrial services**
- **Future directions**
- **Exercise session**

<https://www.itu.int/ITU-R/eTerrestrial>

Committed to connecting the world

YOU ARE HERE HOME > ITU-R > TERRESTRIAL SERVICES > eTerrestrial [Logout \(manara\)](#)

[eTerrestrial](#) [eMIFR](#) [eValidation](#) [WISFAT](#) [eBroadcasting](#) [eFXM\(Fixed/Mobile\)](#) [ePropagation](#)

eTerrestrial: an online Portal for terrestrial services

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

- eMIFR**: Online query system of the MIFR for all terrestrial services
[Go to eMIFR >>](#)
- eValidation**: Validation of frequency notices before their official submission via WISFAT
[Go to eValidation >>](#)
- WISFAT**: Web Interface for Submission of Frequency Assignments/Allotments for Terrestrial Services
[Go to WISFAT >>](#)
- eBroadcasting Portal**: Online platform for broadcasting services
[Go to eBroadcasting >>](#)
- eFXM(Fixed/Mobile)**: Online platform for Fixed and Mobile services
[Go to eFXM >>](#)
- ePropagation**: Online platform for propagation prediction calculations according to ITU-R recommendations
[Go to ePropagation >>](#)

History

- **2006: eBCD2.0 released for RRC06 eQuery/ePub Ge06**
- **2007: eTools GE06 Art.4 Coordination/Conformity**
- **2008: myAdmin. Extension of the tools to all broadcasting plans**
- **2014: Online Validation**
- **2015: eMIFR**
- **2016: Outgoing Correspondence in myAdmin (Focal Points). eMIFR. GE84 compatibility.**
- **2017: CA_Compat**
- **2018: P1812 P2A coverages**
- **2020: GE84 Optimization**

New release for WRS-22!

- **Tools Addition eFXM**
 - **Tools re-organization**
 - **ePropagation**
 - **New features**
 - **CAC List display**
 - **More interactivity between maps and tabular data**
- **Latest technologies**
 - **More modern design and better user experience**
 - **Responsive on all devices**



Objectives


Bring the BR closer to Administrations with added-value services


- Up-to-date broadcasting data
- Special Section at publication date
- Calculation-on-demand
- Easily follow-up on plan modification procedures and related deadlines


Outcome

- Reduce workload on both BR and administrations
- Reduce the need for printed documents


Output




eQuery (All TIES users) 


 eQuery allows fast online searches on broadcasting plans. It allows performing queries on quasi-live databases (updated daily), including the current status and coordination information.


[Go to eQuery >>](#)

ePub (All TIES users) 


 ePub contains the broadcasting publication online. It allows administrations to consult Special Sections as soon as they are published. All broadcasting publications since 2007 are available.


[Go to ePub >>](#)

eTools (All TIES users) 

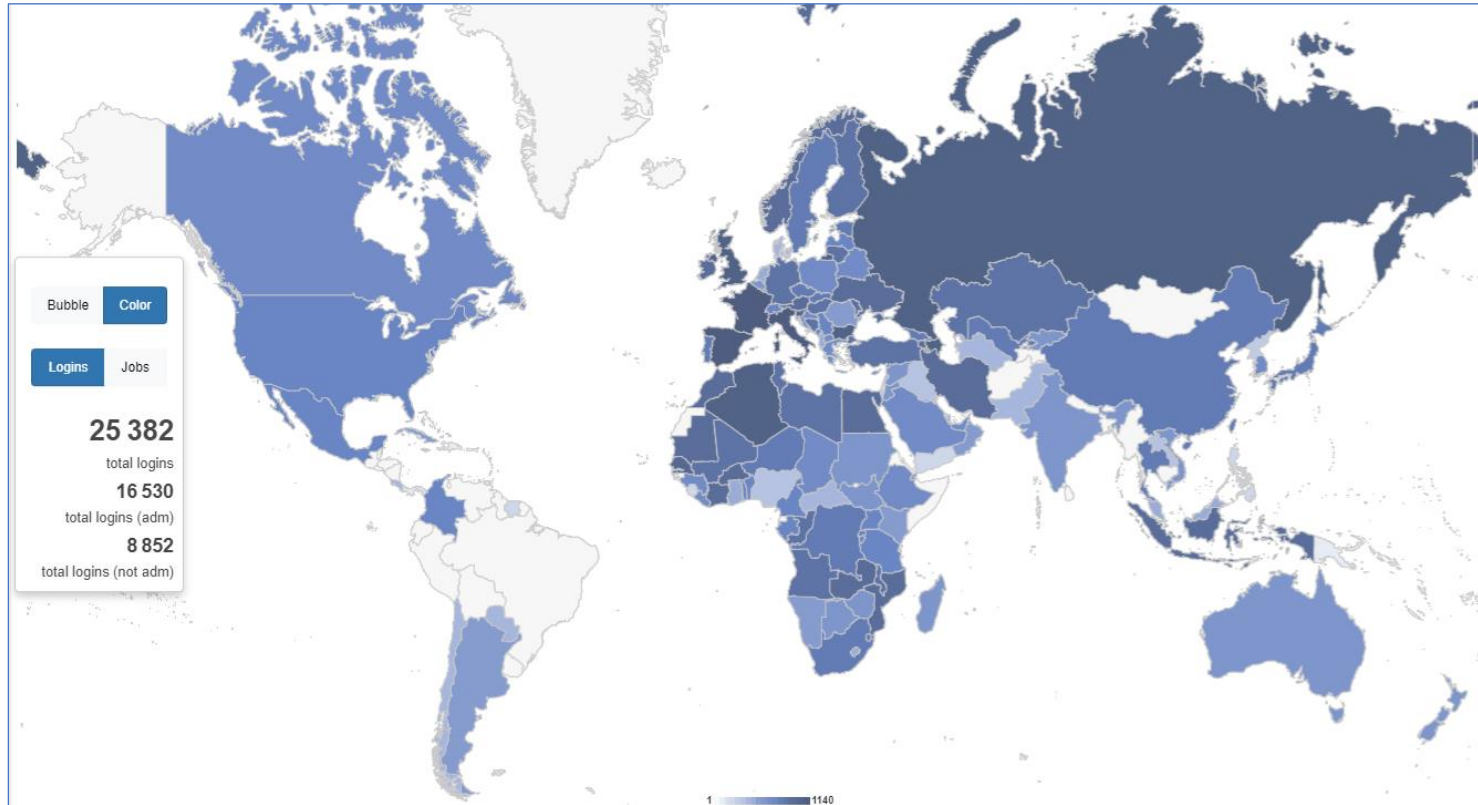
 eTools offers calculation on-demand in the scope of the GE06, GE04 and R381 agreements for testing purposes. It also allows propagation prediction calculations according to the recommendations ITU-R R1812 and R1546.

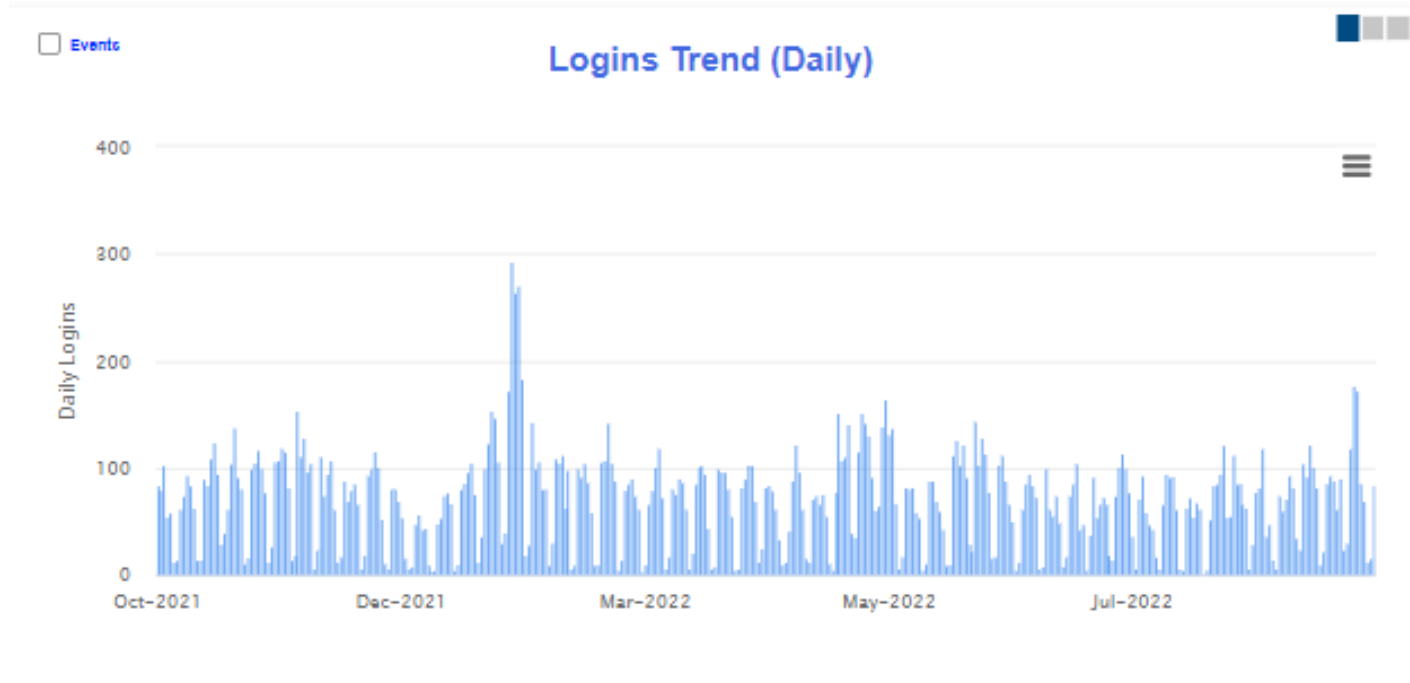
[Go to eTools >>](#)

My Admin (Administration Focal Point ONLY) 

 MyAdmin is the virtual ITU Broadcasting Office (open 24/7) allowing administration to visualize relevant notices and recorded assignment for an easy follow-up of plan modification procedures and related deadlines.

[Go to myAdmin >>](#)





<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/eQuery>

<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/ePub>

"Online search on Plans"

"Special Sections, the publication day!"

eQuery



Read-Only copy of BR Database (Updated daily)

Search by:

- Administration
- Geographic Area
- Frequency
- Administration Unique Identifier
- BR Identification number
- Status (Recorded/Published)
- Site/Allotment name

ePub



Database Snapshots (at publication date)

Search by:

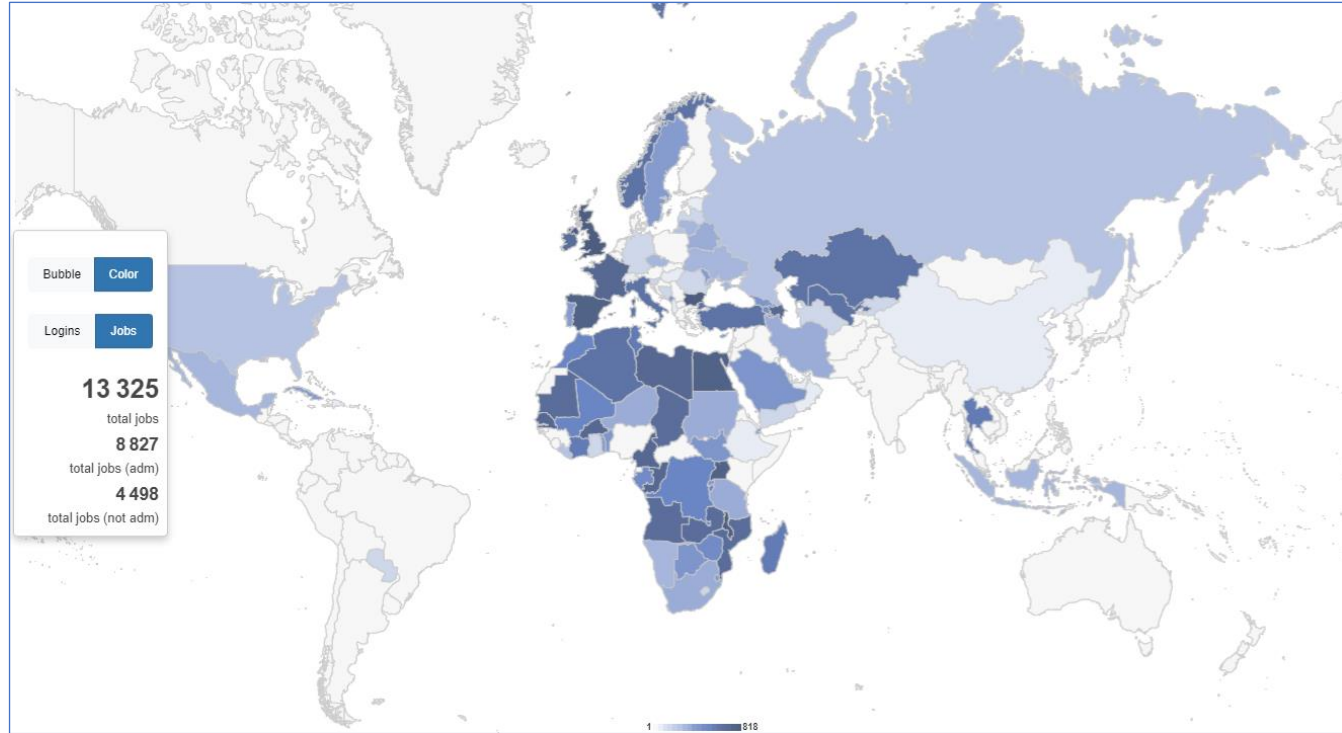
- BR IFIC number
- Administration
 - My notifications
 - Notifications which affects me

All Special Section for
broadcasting plans since 2007

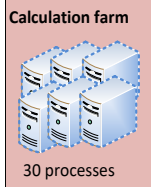
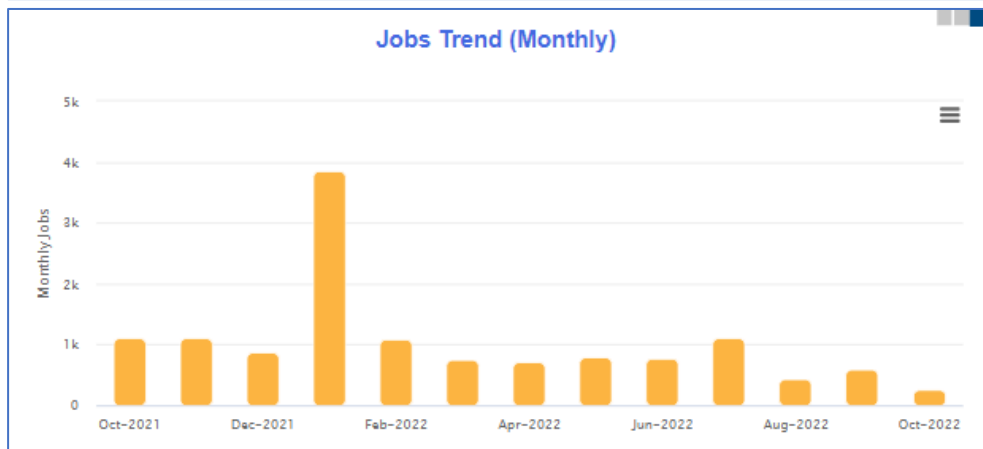
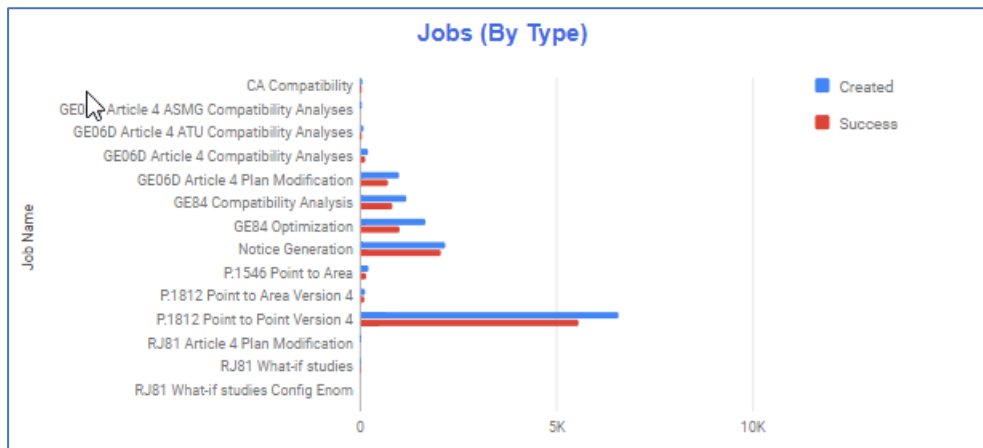


<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/eCalculations>

“On-demand test calculations”



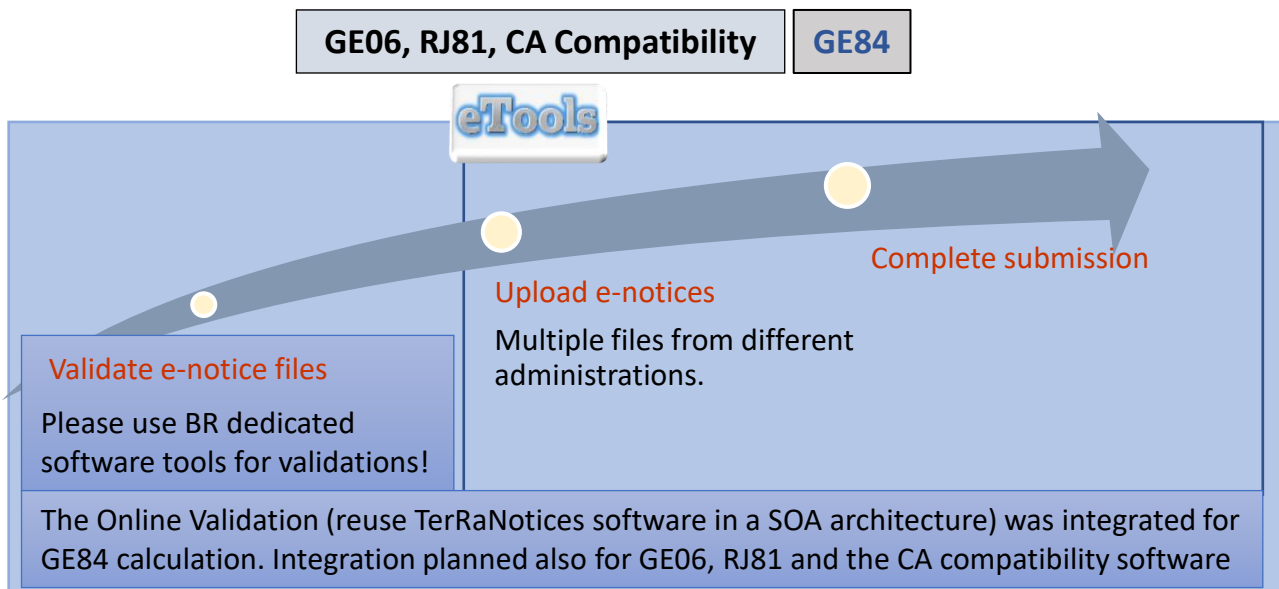
“On-demand test calculations”



Back-end infrastructure

ITU internal farm: 30 processes distributed in such a way to minimize waiting time.

e-notice submission



The ITU distributed processing infrastructure will treat your test submission and inform you at completion!



Check your E-mail account!

Job processing

Job processing, privacy and collaboration

The processing system is currently **ONLINE** (28 processes available)

Please select the calculation type

GE84 **GE84 Optimization** **New Calculation**

Test Packages (click to hide)

Jobs History for User: **manara**

Excel PDF Print Delete Selected Job(s) Refresh all

Showing 1 to 25 of 184 entries Show 25 entries Search

Job Id	Job Name	Job Status	Job Type	Request Date	Start Date	Completion Date	Duration (min)
18540	test	Failed	GE84_OPT	6/2/2022 4:44:01 PM		6/2/2022 4:51:20 PM	7
18537	test	Failed	GE84_OPT	6/2/2022 4:33:49 PM		6/2/2022 4:41:15 PM	2
18534	test	Failed	GE84_OPT	6/2/2022 4:30:24 PM		6/2/2022 4:32:10 PM	2
18521	IMP_FM_ITU_BR	Failed	GE84_OPT	6/2/2022 3:24:13 PM		6/2/2022 3:28:04 PM	4
18513	test	Success	GE84_OPT	5/27/2022 2:16:39 PM	5/27/2022 2:18:32 PM	5/27/2022 2:18:50 PM	2
18484	test	Success	GE84_OPT	5/26/2022 9:38:20 AM	5/26/2022 9:39:31 AM	5/26/2022 9:39:55 AM	2

Job Output (click to hide)

Job Output : ERROR

Adm: I file: **IMP_FM_ITU_BR_AM.txt**
 Parse status: **T_PARSE_HAS_ERRORS**
 Total number of errors: 11
 Total number of warnings: 10

Notice 35 (Line 3386) - T01/ADD
 Line 3386 - DeepVal Error - Vertically Polarized ERP (58.0 dBW) not valid. Valid range: <= 57.0 dBW.

Notice 94 (Line 3101) - T01/ADD
 Line 3101 - DeepVal Error - Vertically Polarized ERP (58.0 dBW) not valid. Valid range: <= 57.0 dBW.

Notice 102 (Line 9847) - T01/ADD
 Line 9847 - DeepVal Error - Assigned frequency 87.6 MHz with Necessary bandwidth exceeding 200 kHz is receivable only from IRN, AFG and Geographical areas in No. 5.175 of the RR (ARM, AZE, BLR, GEO, KAZ, KGZ, LVA, LTU, MDA, RUS, TKM, UKR and UZB), and only on exceptional basis

Notice 104 (Line 10080) - T01/ADD
 Line 10080 - DeepVal Error - GE84 Asslgned Frequency (87.95 MHz) is not a multiple of 100 kHz.

Please contact brbcd@itu.int if the error message is unclear

Privacy and collaboration

Jobs (e-notice and results) are owned and visible **ONLY** by submitter...BUT...

Around **1350 jobs** shared by **880 users** from **90 Administrations**



... facilitate coordination!



...you can now share them with other eBroadcasting registered users! (web2.0)



eBroadcasting >> eTools >> GE84 Compatibility Analyses

Please select the calculation type

GE84

GE84 Compatibility Analyses

New Calculation

Select the proposed modification

87.7MHz_RTS Andijan_072°23'30"E-40°42'57"N-Id:1

Result **Affected** Interferers

Export to Excel

Showing 1 to 18 of 18 entries Show 50 entries Search:

Assign ID	Adm	Intent	Stn Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance (km)	Cold Sea Path (km)	Warm Sea Path (km)	Super refractivity Path (km)	ERP (dBW)	Azimuth (deg)	PR (dB)	NFS	Eu Ref	Proposed Eu	Current Eu	Eu increase (dB)
113066089	KGZ	RECORDED	BC	87.6	V	PPC18	43	-	-	-	38.6	121	33	82.23	88.59	87.62	81.93	5.69
113066084	KGZ	RECORDED	BC	87.6	V	Maliysai PPC	69	-	-	-	38.6	12	33	78.39	84.44	89.43	86.93	2.5
113066092	KGZ	RECORDED	BC	87.6	V	Alabuka	108	-	-	-	38.6	315	33	77.79	94.47	96.62	95.95	0.67
113066077	KGZ	RECORDED	BC	87.6	V	Batken PPC	162	-	-	-	38.6	235	33	74.83	72.26	85.85	83.67	2.18
115125428	KGZ	RECORDED	BC	87.9	V	RRSGULCHA	87	-	-	-	38.6	115	7	67.9	73.84	81.1	79.64	1.46
118018296	KGZ	RECORDED	BC	88.1	V	RRS-6 2 Yuzhnaya 2	72	-	-	-	38.6	45	-20	62.75	108.23	121.72	121.72	0
118018297	KGZ	RECORDED	BC	87.9	V	Djalal-Abad	58	-	-	-	38.6	65	7	61.66	133.12	104.75	104.75	0
115125429	KGZ	RECORDED	BC	87.7	V	ISFANA	262	-	-	-	38.6	249	37	60.23	100.39	104.08	104.08	0
118077926	KGZ	RECORDED	BC	87.9	V	RRS-50 Tash-Kumyr	72	-	-	-	38.6	349	7	52.84	111.06	108.06	108.06	0
120145091	KAZ	RECORDED	BC	87.7	V	KOKSARA1 UKO	414	-	-	-	38.6	303	37	51.7	55.14	59.8	56.33	3.47
113066081	KGZ	RECORDED	BC	88	V	PPC62	61	-	-	-	38.6	64	-7	48.2	96.97	111.3	111.3	0
113066075	KGZ	RECORDED	BC	87.9	V	Karakul PPC	115	-	-	-	38.6	18	7	41.84	65.52	96.22	95.22	0
113066070	KGZ	RECORDED	BC	88.1	V	PPC30	24	-	-	-	38.6	158	-20	41.61	94.31	76.94	76.93	0.01
118077927	KGZ	RECORDED	BC	87.9	V	Batken	151	-	-	-	38.6	242	7	40.88	141.95	141.95	141.95	0
118077928	KGZ	RECORDED	BC	87.9	V	RRS-Arka	230	-	-	-	38.6	253	7	37.67	121.1	122.16	122.16	0
116212203	KGZ	RECORDED	BC	87.5	V	RRS-13 Ala-Myshyk	303	-	-	-	38.6	74	7	32.35	70.67	70.67	70.66	0.01
113066088	KGZ	RECORDED	BC	87.9	V	Sulukta PPC	254	-	-	-	38.6	250	7	31.79	64.95	113.28	113.28	0
114035256	KGZ	RECORDED	BC	87.5	V	Evropa	193	-	-	-	38.6	356	7	30.36	68.22	68.34	68.33	0.01

Previous 1 Next



Adm	Submitted	Assignable	Non Assignable
AFS	177	86	91
NMB	73	73	0

Showing results for assignable requirements from NMB

Select requirement:

FLEX-ARIAMSVLEI (019°50'00"E-28°08'00"S) System 4 Polarization H

GE84 Optimization Description

Summary [FLEX-ARIAMSVLEI (019°50'00"E-28°08'00"S) System 4 Polarization H]

Details of the requirement under consideration

Show top 5 interferers in the summary Show top 5 affected in the summary

Frequency (MHz)		Top five interferers														
Assign ID	Adm.	Intent	Class	Freq.	Pol.	Site Name	Dist.	Cold Sea	Warm Sea	Sup. Refr.	ERP	Azim.	Prot. Ratio	NFS	Coord.	
FLEX	66	AFS	ADD	BC	FLEX	H	AUGRABIES	73	0	0	0	47	310.9	45	101.16	---
	70	AFS	ADD	BC	FLEX	H	NOENIEPUT	76	0	0	0	47	216.8	45	97.01	---
	248	NMB	ADD	BC	FLEX	H	UR	144	0	0	0	47	118.8	37	89.81	---
	213	NMB	ADD	BC	FLEX	H	NM 5	115	0	0	0	47	141.1	37	89.61	---
62	AFS	ADD	BC	FLEX	H	HOUHOED	119	0	0	0	47	357.6	37	88.14	---	

Excel

Frequency (MHz)	Max NFS Generated (dB(μV/m))	Max NFS Received (dB(μV/m))	Top five interferers															
			Assign ID	Adm.	Intent	Class	Freq.	Pol.	Site Name	Dist.	Cold Sea	Warm Sea	Sup. Refr.	ERP	Azim.	Prot. Ratio	NFS	Coord.
87.6	74.23	74.23	084002194	NMB	RECORDED	BC	87.6	H	KEETMANSHOOP	241	0	0	0	47	136.1	37	74.23	---
			084000411	AFS	RECORDED	BC	87.8	H	AUGRABIES	73	0	0	0	47	310.9	7	68.69	---
			084000279	AFS	RECORDED	BC	87.6	H	GARIES	296	0	0	0	37	35.4	37	60.92	---
			084000363	AFS	RECORDED	BC	87.7	H	PRIESKA	321	0	0	0	47	301.8	25	54.8	---
			084000255	AFS	RECORDED	BC	87.6	H	BEAUFORT WEST	525	0	0	0	47	330.1	37	47.92	---
87.7	89.16	89.16	084000411	AFS	RECORDED	BC	87.8	H	AUGRABIES	73	0	0	0	47	310.9	33	89.16	---
			084000363	AFS	RECORDED	BC	87.7	H	PRIESKA	321	0	0	0	47	301.8	37	66.8	---
			084002194	NMB	RECORDED	BC	87.6	H	KEETMANSHOOP	241	0	0	0	47	136.1	25	62.23	---
			084002236	NMB	RECORDED	BC	87.7	H	MARIENTAL	452	0	0	0	47	155.4	37	54.01	---
			084000076	KEE	RECORDED	BC	87.2	U	KEETEE	186	0	0	0	37	34.4	37	48.87	---

Instrumental in planning activities in ATU (2020-2022)



More during GE84 presentation!



Job Output
Input notice file validated by the OnlineValidation process on 1/28/2022 10:03:47 AM

Ignore self interference Ignore interference received Acceptable NFS (dB (μV/m)) 54

Select Analysis option Select Administration
Evaluate Statistics COG Evaluate Statistics

Adm	Submitted	Assignable	Non Assignable
COG	606	373	233

Show Terrain Data Track cursor location

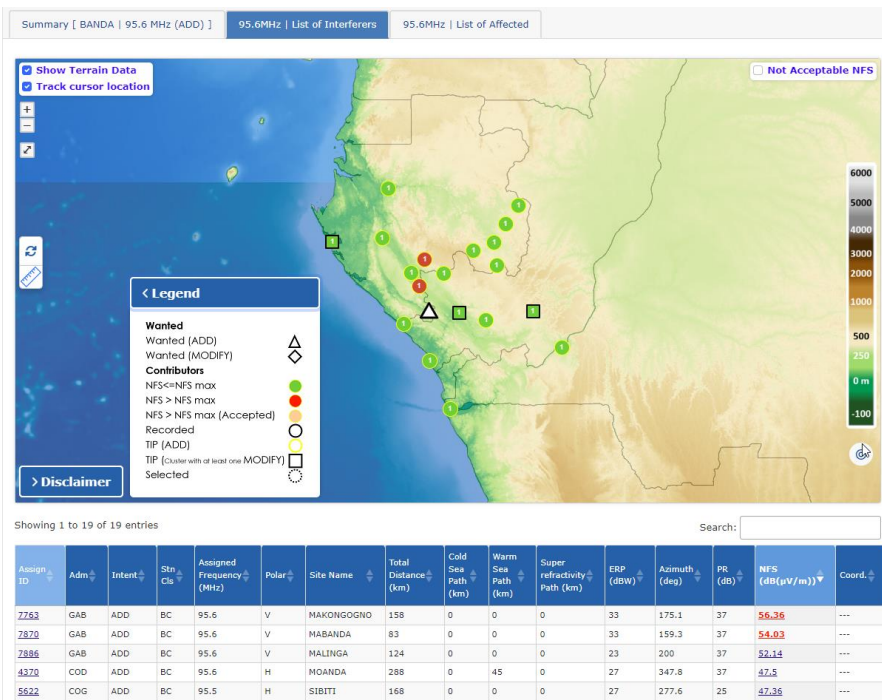
ADD MODIFY

< Legend

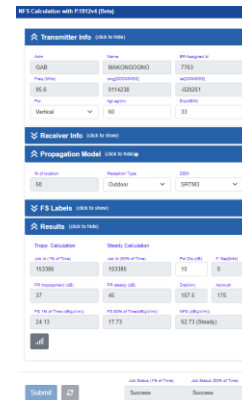
- Assignable ●
- Non-Assignable ●
- Selected
- MODIFY (Cluster with at least one)

[Disclaimer](#)

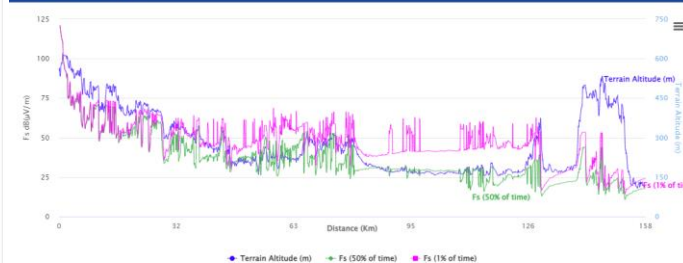
1° 03' 23" S 32° 33' 44" E



Possibility to run on-the-fly P.1812 calculations to assess the effect of the terrain



Terrain Altitude vs. Fs.



GE06D plan modification (coordination/conformity exam)

The screenshot displays the 'Details of Proposed Modification' interface. It includes a table with the following data:

Adm	Geo Area	Intent	Site Name	Freq Assgn(MHz)	PE	Longitude	Latitude	ErpH(dBW)	ErpV(dBW)
S	S	ADD	SOLLETEA HALLSTA	658	2L	017°14'31" E	63°09'39" N	27	
S	S	ADD	RANSELE SKAIVAASEN	658	2L	016°24'55" E	63°35'58" N	30	NaN

Below the table, there is a map showing the geographical locations of the sites. The map includes a 'Proposed Modification' overlay and various contour lines. A 'Reference Point' is marked, and 'Geometrical Contours' are shown for 200 km, 750 km, 100 km, and 300 km. A 'Cut-Off Field Strength Contour' is also visible, with a 'Trigger FS (dBuA/MHz): 21' and 'Rx Antenna Height (m): 10'.

GE06 compatibility analyses

Interference calculations between new notices (from electronic notification files) and existing plan notices and recorded assignments/allotments

Job Summary

Delete X Share

Job Id	Job name	Status
81567	test	Success

Job Input

Adm	E-notice file	Number of Notices
MRC	MRCL.txt	

Download results

MS Access mdb file to be visualized with GE06Calc.

Instrumental in planning activities in regional organizations

ATU (2012-2013) ASMG (2014-2015)

eBroadcasting >> eTools >> RJ81 plan modification and what-if studies

Following CITELE requests
(2014-2015)

- Plan Modification
- What-if studies
- What-if studies configurable Enom

eTools Disclaimer eTools Documentations

The processing system is currently ONLINE (28 processes available)

Please select the calculation type

- Test Packages (click to show)
- Job Input Details (click to hide)

Job Summary

Delete Share

Job Id	Job name	Status
18951	test	Success

Job Input (1 File(s))

Adm	E-notice file	Number of Notices
ARG	ARG_2Notices_56_57.txt	2

Job Output (click to hide)

Job Output

Proposed Modification	Administrations with incompatibilities
570kHz_BUENOS AIRES	CHL URG
560kHz_TARTAGAL	B PRG

Select the proposed modification

Select the affected protected station

Showing 1 to 3 of 3 entries Show 25 entries

Search:

ID Number	Frequency Assigned (kHz)	Country	Station Name	Class of Station	RR Serial Number Affected	Frequency Assigned Affected (kHz)	Country Affected	Station Name Affected	Class of Station Affected	RJ81 List Affected	Time of Operation	Azimuth (deg)	Distance (km)	Symbol	Protected Value (mV/m)	NFS (mV/m)	NFS or EU before (mV/m)	EU after (mV/m)	Note
2	570	ARG	BUENOS AIRES	B	081000471	570	CHL	SANTIAGO 12	A	A	N	140	123	Y	0.68	0.73	1	1.24	
2	570	ARG	BUENOS AIRES	B	081000471	570	CHL	SANTIAGO 12	A	A	N	160	146	Y	0.63	0.71	0.94	1.18	
2	570	ARG	BUENOS AIRES	B	081000471	570	CHL	SANTIAGO 12	A	A	N	220	190	Y	0.38	0.53	0.81	0.89	



Interference calculations between **new requirements** (from electronic notification files) and **existing MIFR notices and recorded assignments**

Job Summary Delete ✖ Share

Job Id	Job name	Status
78840	test	Success

Job Input

Adm	E-notice file	Number of Notices
MEX	MEX_76840_IN.txt	4

Job Output

[Download results](#)

MS Access mdb file to be visualized with CA Display

[CA Display manual](#)

[CA compat manual](#)

COMTELCA

- Based on the EBU software developed for the RRC06 planning
- Main changes
 - Propagation model ITU-R P.1546-5 (refractive index correction) vs ITU-R P.1546-2 (propagation zones)
 - Protection ratios for all digital standards (vs. DVB-T only)

"My own office for broadcasting services
@ ITU: opening ~24/7"

Focal point only

CR 408: Restricted access to **focal point** only since **November 2016** for myAdmin and e-mail notification services.

313 focal points TIES account from 113 administration

AFG	0	AFS	3	AGL	1	ALB	0	ALG	4	AND	0	ARG	0	ARM	1	ARS	7	ATG	0	AUS	1	AUT	7
AZE	2	B	0	BAH	0	BDI	2	BEL	4	BEN	2	BFA	2	BGD	0	BHR	5	BIH	3	BLR	2	BLZ	0
BOL	2	BOT	0	BRB	0	BRM	0	BRU	0	BTN	0	BUL	3	CAF	0	CAN	0	CBG	0	CHL	0	CHN	3
CLM	0	CLN	0	CME	6	COD	0	COG	5	COM	4	CPV	1	CTI	3	CTR	0	CUB	0	CVA	1	CYP	3
CZE	2	D	2	DJI	1	DMA	0	DNK	1	DOM	0	E	4	EGY	3	EQA	0	ERI	0	EST	3	ETH	0
F	13	FIN	2	FJI	0	FSM	0	G	3	GAB	2	GEO	2	GHA	1	GMB	1	GNB	0	GNE	1	GRC	0
GRD	0	GTM	0	GUI	2	GUY	0	HND	0	HNG	6	HOL	0	HRV	5	HTI	0	I	6	IND	2	INS	2
IRL	4	IRN	4	IRQ	0	ISL	0	ISR	0	J	1	JMC	0	JOR	4	KAZ	3	KEN	3	KGZ	1	KIR	1
KNA	0	KOR	1	KRE	0	KWT	0	LAO	0	LBN	0	LBR	3	LBY	4	LCA	0	LIE	1	LSO	2	LTU	4
LUX	1	LVA	2	MAU	1	MCO	2	MDA	2	MDG	3	MEX	0	MHL	0	MKD	2	MLA	3	MLD	0	MLI	2
MLT	2	MNE	1	MNG	0	MOZ	4	MRC	5	MTN	6	MWI	0	NGC	0	NGR	1	NIG	3	NMB	2	NOR	5
NPL	0	NRU	0	NZL	2	OMA	6	PAK	1	PHL	1	PNG	0	PNR	0	POL	1	POR	3	PRG	0	PRU	0
PSE	2	QAT	2	ROU	1	RRW	4	RUS	2	S	1	SDN	4	SEN	2	SEY	6	SLM	0	SLV	0	SMO	0
SMR	0	SNG	1	SOM	0	SRB	2	SRL	0	SSD	1	STP	0	SUI	2	SUR	0	SVK	5	SVN	2	SWZ	1
SYR	2	TCD	2	TGO	5	THA	0	TJK	0	TKM	0	TLS	0	TON	0	TRD	0	TUN	3	TUR	1	TUV	0
TZA	5	UAE	5	UGA	1	UKR	3	URG	0	USA	0	UZB	1	VCT	0	VEN	0	VTN	3	VUT	0	YEM	0
ZMB	3	ZWE	3																				

If focal point not notified → BR will use official email addresses for notification services (BUT no myAdmin access then ☹) brbcd@itu.int


Latest Special Sections and Output correspondence

Focal point only



MyAdmin: Virtual ITU broadcasting office (open 24/7)

Adm (ITU) **RCJ** MailBox **RC30** GE06D **RC10** GE84 ST61 GE75 MIFR



Latest Special Sections annex to the latest BR IFIC (2982) on date 18 Oct 2022

Your proposed plan modifications to be published (Internal site ONLY)

Plan	Special Section	PubPart	Number of Notices
GE06	197	B1	13

BR Outgoing Correspondence

ALL ▾

Showing 1 to 25 of 232 entries Show entries Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE84	316	50 days reminder	29 Sep 2022	9 Oct 2022	31E/RCO/0-2022-003692	expired
GE84	315	70 days reminder	22 Sep 2022	20 Oct 2022	31E/RCO/0-2022-003596	9
GE84	317	Publication of Special Section	6 Sep 2022	26 Oct 2022	31E/RCO/0-2022-003419	15
GE84	315	50 days reminder	1 Sep 2022	11 Sep 2022	31E/RCO/0-2022-003383	expired
GE84	314	70 days reminder	24 Aug 2022	22 Sep 2022	31E/RCO/0-2022-003244	expired
GE06	193	50 days reminder	18 Aug 2022	11 Sep 2022	31B/RCO/0-2022-003210	expired
GE84	316	Publication of Special Section	9 Aug 2022	28 Sep 2022	31E/RCO/0-2022-003118	expired
GE84	314	50 days reminder	5 Aug 2022	15 Aug 2022	31E/RCO/0-2022-003083	expired
GE06	169	2 years and 75 days reminder	26 Jul 2022	18 Oct 2022	31B/RCO/0-2022-002963	7
GE06	194	Publication of Special Section	26 Jul 2022	9 Oct 2022	31B/RCO/0-2022-002972	expired

Plans and MIFR dashboard



Adm (ITU)	3(2) MailBox	D(36) GE06D	R(10) GE84	ST61	GE75	MIFR
Recorded Assignments						2985
Notices under treatment						124
Notices under treatment ready for Part B						32
Notices under treatment receiving objection						16
Notices under treatment which affect me						36
Comments given in the last period (30 days)						5
Comments received in the last period (30 days)						6
Notices to be deleted after 2 years and 75 days (90 days early warning)						56


Plans and MIFR dashboard



Adm (ITU)	3(2) MailBox	D(56) GE06D	R(10) GE84	ST61	GE75	MIFR
Recorded Assignments						2123
Notices under treatment						19
Notices under treatment ready for Part B						7
Notices under treatment receiving objection						12
Notices under treatment which affect me						64
Notices under Coordination Check Review						10

Focal point only

Plans and MIFR dashboard



MyAdmin: Virtual ITU broadcasting office

Adm (ITU) MailBox GE06D **GE84** ST61 RJ81 GE75 MIFR CAC

Recorded Assignments	7700
Notices under treatment	18
Notices under treatment ready for Part B	1
Notices under treatment receiving objection	5
Notices under treatment which affect me	209
Notices under treatment which affect me I objected to	31
Comments given in the last period (30 days)	24
Comments received in the last period (30 days)	8

GE84/F

Export to Excel Export to PDF Google Earth Generate TBS Generate a-notice (Export to SOML) Print

Showing 1 to 18 of 18 entries Show 50 entries Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
122084873	F	RETHEL	93.8	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122084880	F	REIMS	91.7	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122084878	F	MONTBARD	94.3	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084874	F	MONTBARD	105.4	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084875	F	MONTBARD	89.7	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084881	F	AUTUN	99.6	ADD	318	12 Jan 2023	AUT BEL D HOL 1 LIE LUX MCO SUI		AUT BEL D HOL 1 LIE LUX MCO SUI
122084876	F	BESANCON	105.6	ADD	318	12 Jan 2023	AUT BEL D HOL 1 LIE LUX MCO SUI		AUT BEL D HOL 1 LIE LUX MCO SUI
122084877	F	LUXEVIL LES BAINS	101.9	ADD	318	12 Jan 2023	AUT BEL C2E D HOL 1 LIE LUX MCO SUI		AUT BEL C2E D HOL 1 LIE LUX MCO SUI
122063087	F	SENI	107.2	ADD	316	17 Nov 2022	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122063430	F	SENI	106.3	ADD	316	17 Nov 2022	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122063088	F	SENI	101	ADD	316	17 Nov 2022	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122058820	F	VALENCIENNES	87.7	MODIFY	315	20 Oct 2022	BEL D G HOL LUX SUI		BEL D G HOL LUX SUI
122050282	F	FREJUS 3	106.3	ADD	314		AND AUT CVA D E 1 LIE MCO SMR SUI		AND AUT CVA D E 1 LIE MCO SMR SUI
122001328	F	S ROSE	87.6	ADD	310		MAU		MAU
121124520	F	COTTI CHIAVARI	93.5	MODIFY	309		CVA E HRV 1 SMR SUI TUN		AND CVA E HRV 1 MCO SMR SUI TUN
122000004	F	BORFACIO	102.1	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN
122000002	F	BORFACIO	95.9	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN
122000001	F	BORFACIO	93.9	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN

Previous 1 Next

GE84/F

Export to Excel Export to PDF Google Earth **Generate TBS** Print

Showing 1 to 1 of 1 entries Show 50 entries Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
122050282	F	FREJUS 3	106.3	ADD	314		AUT CVA D E 1 LIE MCO SMR SUI		AND AUT CVA D E 1 LIE MCO SMR SUI

Previous 1 Next

Focal point only

Plans and MIFR dashboard





MyAdmin: Virtual ITU broadcasting office (open 24/7)

Adm (ITU)	2 MailBox	GE06D	GE84	RJ81	GE75	MIFR	CAC List
Notices in CAC List							38
Notices in CAC List implemented in MIFR							5

Focal point only

Sun 11/27/2016 4:49 AM

 eBCD, ITU 



Every Sunday 4.00 a.m.

Recording of new coordinations/objections regarding your plan modifications (FIN)

kari.hautala@ficora.fi; kari.kangas@ficora.fi; ari.lahtinen@ficora.fi; markus.mettala@ficora.fi; teemu.ovaska@ficora.fi

Dear Madam/Sir

Wed 11/23/2016 4:46 AM

 eBCD, ITU 

The Radiocommunication Bureau have just been entered in the database

Publication of your proposed plan modifications (G)

To: dowlandt@ties.itu.int; freemanp@ties.itu.int; ngreen@ties.itu.int; hillsala@ties.itu.int; jamesmar@ties.itu.int; pollitt@ties.itu.int

Latest Coordination for G

assgn_id	pub_no	adm	site
116113557	119	FIN	ESI
116113558	119	FIN	ESI
116150059	122	FIN	MI

Dear Madam/Sir

The Radiocommunication Bureau informs you that your proposed plan modifications have just been published in the relevant Special Sections annex to BR IFIC 2833, on date 22/11/2016

Plan	Special Section	Pub Part	NoNotices
GE84	246	A	3

For all detailed information please visit [ePub](#)

Special Section GE84/315 of BRIFIC No 2975 dated Tuesday, July 12, 2022 (I) 31E(BCD)O-2022-003596



eBCD, ITU

To [eva.spina@mise.gov.it](#); [maurizio.danzo@mise.gov.it](#); [nataledaniele.russo@mise.gov.it](#); [umberto.mascia@mise.gov.it](#); [anna.lassainato@mise.gov.it](#); [tommaso.magliocca@mise.gov.it](#)
Cc [Traore, Bangaly-Fodé](#)

[Reply](#) [Reply All](#) [Forward](#) [Share](#) [More](#)

Mon 10/10/2022 4:25 AM

Dear Madam/Sir

On date Thursday, September 22, 2022 the Bureau

The Bureau has also later informed you via e-mail

The Bureau wishes to inform you that the limit of

Important: Please do not reply to this email

For any further clarification or additional information

Adm (ITU)
MailBox
GE06D
GE84
ST61
GE75
MIFR

Latest Special Sections annex to the latest BR IFIC (2982) on date 18 Oct 2022

Your proposed plan modifications to be published (Internal site ONLY)

Plan	Special Section	PubPart	Number of Notices
GE06	197	B1	143
GE75	204	A	3
GE75	204	B	4

BR Outgoing Correspondence

ALL ▾
Showing 1 to 25 of 308 entries
Show entries
Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE84	318	Publication of Special Section	4 Oct 2022	23 Nov 2022	31E(BCD)O-2022-002767	43
GE84	316	50 days reminder	29 Sep 2022	9 Oct 2022	31E(BCD)O-2022-002692	expired
GE84	315	70 days reminder	22 Sep 2022	20 Oct 2022	31E(BCD)O-2022-003596	9
GE06	196	Publication of Special Section	20 Sep 2022	4 Dec 2022	31E(BCD)O-2022-002563	54
GE84	317	Publication of Special Section	6 Sep 2022	26 Oct 2022	31E(BCD)O-2022-002419	15
GE84	315	50 days reminder	1 Sep 2022	11 Sep 2022	31E(BCD)O-2022-002383	expired
GE84	314	70 days reminder	24 Aug 2022	22 Sep 2022	31E(BCD)O-2022-002244	expired
GE06	193	50 days reminder	18 Aug 2022	11 Sep 2022	31E(BCD)O-2022-002210	expired

ITU-R P series calculations for terrestrial services

➤ Moved to eTerrestrial level

➤ New functionalities

- Integrated map display
- Improved graphics
- Evaluating additional DEMs (SRTM valid only in the latitudes range [-56,60])
- Possibility to read notice file and reuse other jobs input parameters
- P.1812 offered as option in GE84 calculations

More during Propagation session!

<p style="text-align: center;">Recommendation ITU-R P.1812-6 (09/2021)</p> <p style="text-align: center;">A path-specific propagation prediction method for point-to-area terrestrial services in the frequency range 30 MHz to 6 000 MHz</p>	<p style="text-align: center;">Recommendation ITU-R P.1546-6 (08/2019)</p> <p style="text-align: center;">Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 4 000 MHz</p>
<p>Deterministic model model all the physical phenomena which plays a role in VHF-UHF band</p> <p>Path specific Uses terrain profile (elevation above mean sea level).</p>	<p>Empirical model based on extensive field measurements and statistical analysis</p> <p>Path general The effect of terrain only via:</p> <ul style="list-style-type: none"> • Effective antenna height • Clearance Angle correction • Tropospheric scattering correction
<ul style="list-style-type: none"> ➤ 30 MHz - 6 GHz ➤ 0.25 km - 3000 km ➤ 1% < time < 50% ➤ 1% < locations < 99% ➤ Rx and Tx hgt agl <= 3km 	<ul style="list-style-type: none"> ➤ 30 MHz - 4 GHz ➤ 1 km - 1000 km ➤ 1% < time < 50% ➤ 1% < locations < 99% ➤ Rx and Tx hgt agl <= 3km

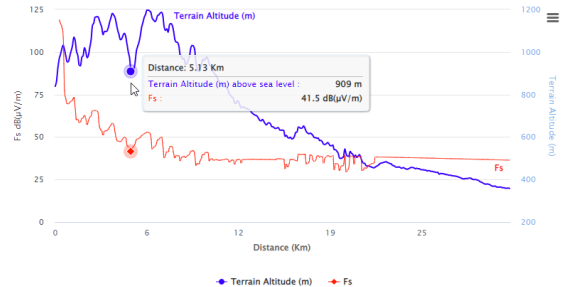
More during Propagation session!

P.1812-6(09-21)

Propagation prediction using terrain profile (deterministic model)

- 30 MHz - 6 GHz
- 0.25 km - 3000 km
- 1% < time < 50%
- 1% < locations < 99%
- Rx and Tx hgt agl <= 3km

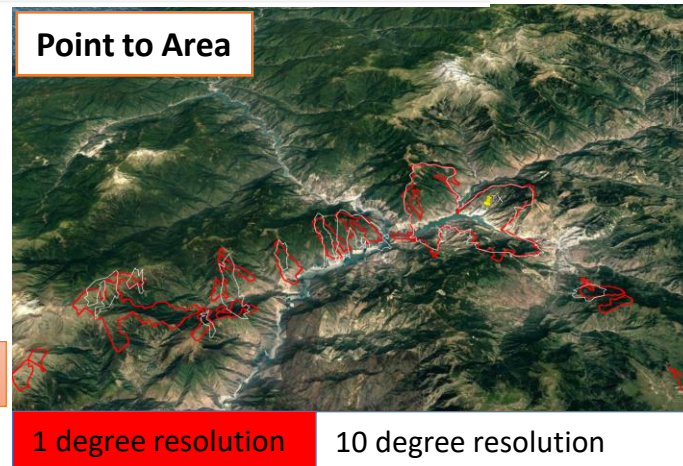
Point to Point



Transmitter	<input type="button" value="↓"/>	Receiver	<input type="button" value="↓"/>	Environment	
Frequency(MHz)	186	Longitude(DMS)	45 21 14 E	% of time	1
Longitude(DMS)	45 00 00 E	Latitude(DMS)	41 05 39 N	% of location	50
Latitude(DMS)	41 10 00 N	Ant. Height AGL(m)	10	Reception type	Outdoor
ERP(dBW)	30			DEM	SRTM3 ASTER_V3 SRTM1 SRTM3
Ant. Height AGL(m)	70				
Polarization	Horizontal				
<input type="button" value="Submit"/> <input type="button" value="Clear"/>					

More during Propagation session!

Point to Area



1 degree resolution

10 degree resolution

P.1546-6(08-19)

Propagation prediction (empirical model)

- 30 MHz - 4 GHz
- 1 km - 1000 km
- $1\% < \text{time} < 50\%$
- $1\% < \text{locations} < 99\%$
- TX eff hgt $\leq 3\text{km}$

More during Propagation presentation!

Point to Area

Job Input

Adm	Input Parameters
ARM	 Use as Input Display Input Parameters

Google Earth

Show Terrain Data
 Track cursor location



> Disclaimer





eMIFR: on-line query for terrestrial services

Readonly daily copy of the MIFR database (last update: 12 Oct 2022 03:10:02)

MIFR (Broadcasting) MIFR (FXM) MIFR (All)

Selection Criteria

Administration

Geographic Area

Notice Type

Class of Station

Administration

>> >

AFG
AFS
AGL
ALB
ALG
ARG
ARM
ARS
ATG
AUS
AUT

< <<

Frequency Unit

kHz

Fmin

Fmax

Consider Bandwidth

BR Assign Id (From)

BR Assign Id (To)

Unique Id. code given by Administration

Site Name

Date of Receipt (From)

Date of Receipt (To)

Status

Recorded Pending

Apply filter



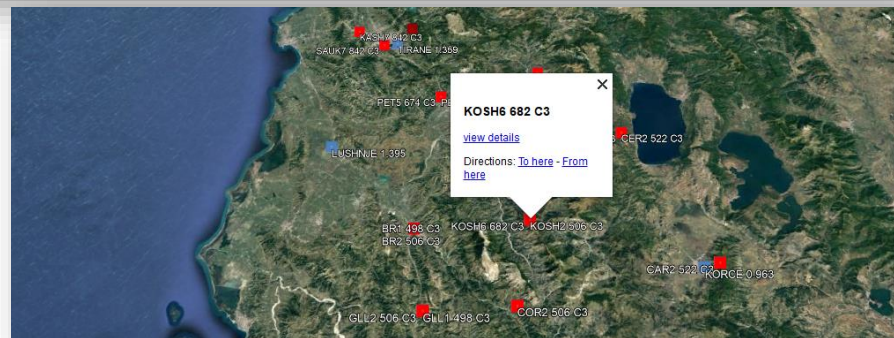
MIFR (Broadcasting)

[Export to Excel](#)
[Export to PDF](#)
[Google Earth](#)
[Print](#)

Showing 1 to 50 of 178 entries Show entries

Search:

BR Id	Adm	Geo Area	Site Name	Location	Assigned Frequency (MHz)	Intent	Notice Type	StnCls	Tran Sys
080017007	ALB	ALB	KORCE	020°48'00" E - 40°36'00" N	0.963	RECORDED	1A2	BC	
080017155	ALB	ALB	KUKES	020°23'00" E - 42°09'00" N	0.99	RECORDED	1A2	BC	
080018710	ALB	ALB	GJIROKASTER	020°10'00" E - 40°04'00" N	1.305	RECORDED	1A2	BC	
080018847	ALB	ALB	SHKODER	019°30'00" E - 42°06'00" N	1.323	RECORDED	1A2	BC	
080019037	ALB	ALB	TIRANE	019°51'00" E - 41°18'00" N	1.359	RECORDED	1A2	BC	
080019261	ALB	ALB	LUSHNJE	019°40'00" E - 40°57'00" N	1.395	RECORDED	1A2	BC	
114048787	ALB	ALB	GLL16	019°59'02" E - 40°29'26" N	198.5	RECORDED	GT1	BT	F3
114048785	ALB	ALB	KER16	020°07'53" E - 40°04'25" N	198.5	RECORDED	GT1	BT	F3



FXM

FMTV

LFMF

Assigned Frequency (MHz)	357	Nature of Service	
Reference (carrier) Frequency		Frequency Deviation (MHz)	
Class of Emission	A3E--	Energy dispersal (MHz)	
Bandwidth Code	2K10	System Type Code(s)	

Station and Site Information

Site Name
Class of station
Station Type
Geographical Type
Zone ID

Operations

Operation 1

General Characteristics
Power Type
Power to the Antenna (dBW)
Radiated Power (dBW)
Maximum Antenna Gain (dB)
Maximum Gain Toward the Local Horizon (dB)
Gain Type
Maximum Power Density (dBW/MHz)

Receiving Station Information

RXZ
Site Name
Geographic Area
Region

Site Characteristics

transmitting Antenna Site Name
geographic Area
longitude
altitude
altitude of site above sea level (m)

Emission Characteristics

assigned Frequency (MHz)
bandwidth (KHz)
frequency Block
V channel
Antenna Directivity
polarization
Height of Antenna Above Ground Level (m)
Maximum Effective Antenna Height (m)

Effective Antenna Height(m)

Remarks

remarks (ITU)
Updated MIFR assignment to be kept (AN- H X/GED6) base
remarks (Administration)

Administrative

Technical Characteristics

region
geographic Area
transmitting Antenna Site Name
longitude
altitude

Assigned Frequency (KHz)
Ground Conductivity(mS/m)
Synchronization Network
Noise Zone

Day Time Operation

Carrier Power (kW)
bandwidth (kHz)
Antenna Type
Class of Emission
Transmission System
Adjacent Protection Ratio (dB)

Azimuth of Maximum Radiation(°)
Maximum Radiation (dB)
Effective Monopole Radiated Power (kW)
Height of Antenna Above Ground Level (m)
Hours of operation

Night Time Operation

Carrier Power (kW)
bandwidth (kHz)
Antenna Type
Class of Emission
Transmission System
Adjacent Protection Ratio (dB)

Azimuth of Maximum Radiation(°)
Maximum Radiation (dB)
Effective Monopole Radiated Power (kW)
Height of Antenna Above Ground Level (m)
Hours of operation

Findings Information

- Integration of eFXM in eTerrestrial
- Integration of HFBC software in eBroadcasting
- Development of GE75 what-if studies and display detailed coordination results
- Development of more map-centric tools

Exercise session

Login to the [eTerrestrial](#) platform.

If you do not have a TIES account use the generic account

username: user1 password: user1

Explore the available tools (myAdmin restricted access to focal point only) by navigating amongst them

Exercise n. 1: eQry

1. Set selection criteria for plans published notices or recorded assignments for your administration
2. Retrieve the data
3. Browse through summary information and notice/assignment details
4. Export the information to Excel
5. View the data in Google Earth.

Exercise n. 2: ePub

1. Consult data concerning Special Sections of a plan of your choice
 - Browse affected/notifying administrations
 - Browse through summary information and notice/assignment details
2. Select your Administration
 - For the Plan of your choice, find the Special Sections which included your modifications or notifications affecting your administrations
3. In case you are a Focal Point, verify that you received the email notification informing of new publications

Exercise n. 3: ePropagations

1. Read the Disclaimer to make sure you understand scope and limitations of the tool
2. Look at the Documentation link pointing to documents concerning the various calculations provided and browse through few documents of interest to you
3. Submit a Propagation P1812 P2P or P1546 P2A calculation
4. Display the results when the calculation completes (an e-mail will be sent to your ties e-mail account)
5. Share the job with one or more of your neighbors. Verify that your neighbors can access your test data.
6. Delete a job if you are not more interested in it.

Focal point only

Exercise n. 4: myAdmin

- a. Are you a focal point? If you are involved with plan modification procedure you should definitely be a focal point!
- b. Verify that you have access to myAdmin
- c. Look at your MailBox
 - a. Is there any BR outgoing correspondence?
 - i. Get familiar with the information provided. Click on the Document link and open the pdf file.
 - ii. Do you have any item in red? What does it mean?
- d. Verify if you received email notifications concerning coordination data, new Special Sections and new documents concerning your latest publications (since 15 September 2016).



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

Geneva, Switzerland

Thank you!

ITU – Radiocommunication Bureau

Questions to:

Your brbcd@itu.int

brmail@itu.int

www.itu.int/go/wrs-22

#ITUWRS

