



29TH WORLD RADIOCOMMUNICATION SEMINAR
30 November - 11 December 2020

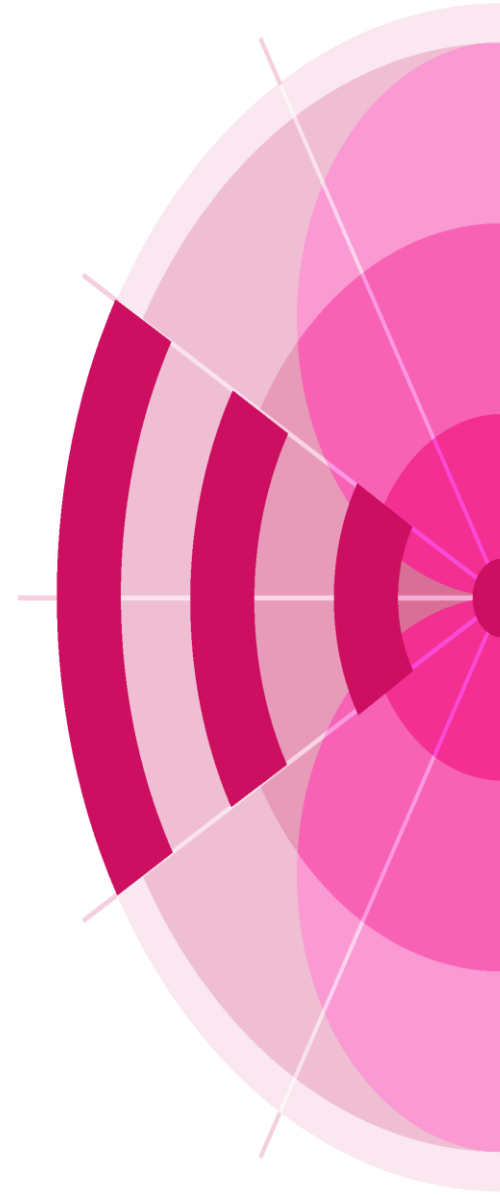
ITUWRS
ONLINE2020

Online tools and electronic communication means for terrestrial services

By *Andrea Manara*
Broadcasting Service Division

www.itu.int/go/wrs-20

#ITUWRS



Agenda

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

Integrated eTerrestrial platform



Committed to connecting the world

عربي 中文 Español Français Русский

YOU ARE HERE HOME > ITU-R > TERRESTRIAL SERVICES > E-TERRESTRIAL

Home eTerrestrial

eMIFR

Online Validation

eBroadcasting >

eTerrestrial: an online Portal for terrestrial services

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

eBroadcasting

(All TIES users)

eBroadcasting Portal: Tools for broadcasting services giving access to: online publications (ePub), databases (eQuery), calculations on-demand (eTools) and a service (myAdmin) allowing administrations to check and visualize their notices and recorded assignments, making it easy to follow the relevant Plan modification procedures and related deadlines.

[Go to eBroadcasting >](#)

eMIFR

(All TIES users)



eMIFR: Online query system of the Master International Frequency Register (MIFR) for all terrestrial services

[Go to eMIFR >](#)

Online Validation

(All TIES users)



Online Validation: Validation of frequency assignment/allotment notices before their official submission via WISFAT

[Go to Online Validation >](#)

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eBroadcasting platform

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

not TIES users? Use user1 credential



Output

eQry

ePub

eTools

myAdmin

Focal point only

TIES users



eBCD 2.0
Broadcasting Online

eBroadcasting platform

eBroadcasting: Broadcasting Online

eBroadcasting, an online platform for broadcasting services

The eBroadcasting platform provides **secure web-based services** related to terrestrial broadcasting to TIES users. The platform provides services to consult databases (**eQuery**), publications (**ePub**) and to perform calculations on-demand (**eTools**) in the scope of selected broadcasting agreements also and propagation prediction calculations. It provides also a portal (**myAdmin**) which allows administrations to check and visualize their notices and recorded assignments, making it easy to follow the relevant Plan modification procedures and related deadlines.

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, GE84 and RJ81 agreements for testing purposes. It also allows propagation prediction calculations according to the recommendations ITU-R P.1812 and P.1546.

[Go to eTools >](#)

My Admin

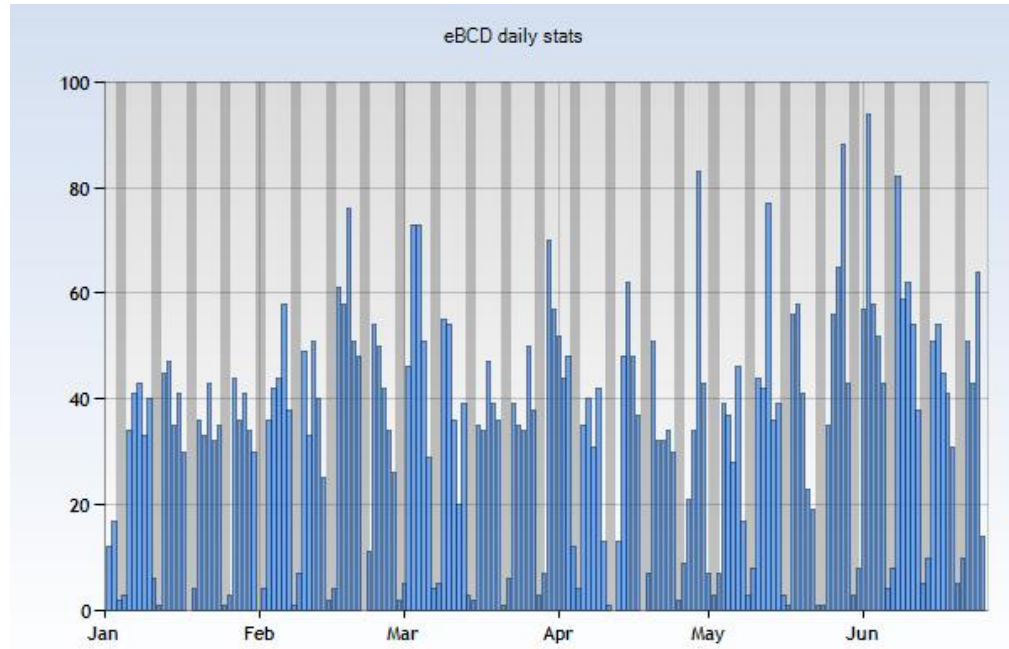
(Administration Focal Point ONLY) 🔒



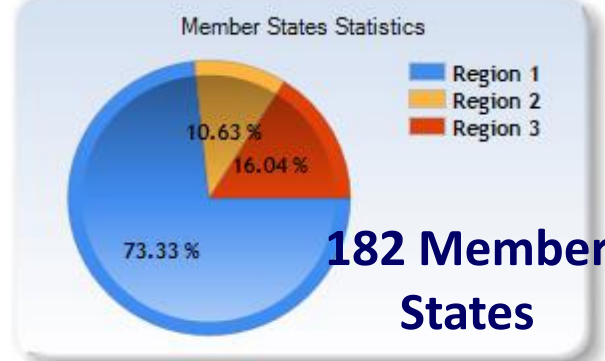
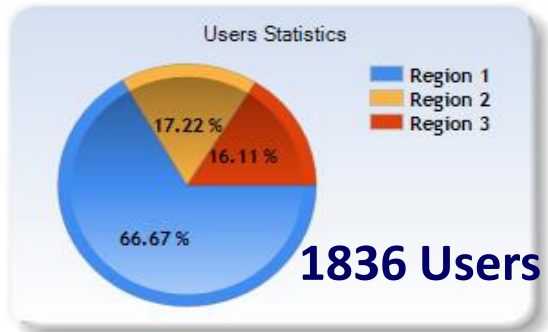
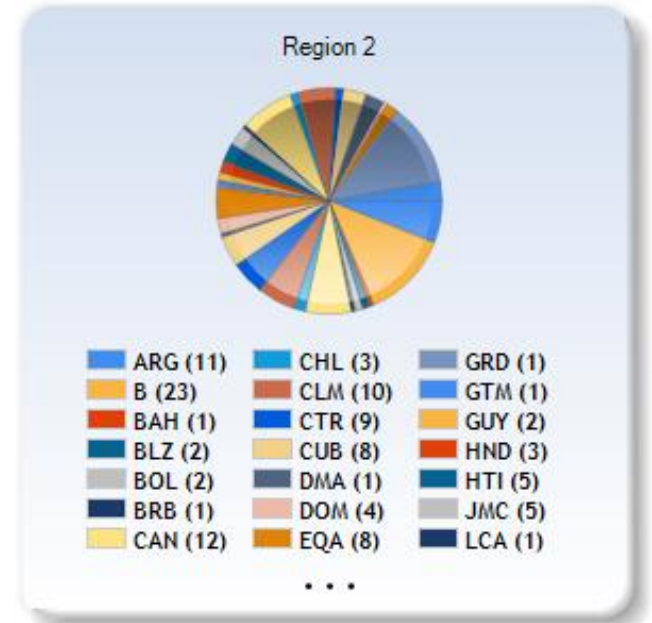
myAdmin is the virtual ITU Broadcasting Office (open 24/7) allowing administration to visualize relevant notices and recorded assignment for an easy follow-up of plan modification procedures and related deadlines.

Administration Focal Point ONLY (Authorization needed).

eBroadcasting platform



Number of daily logins 2020

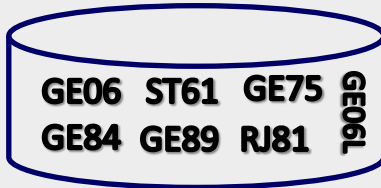


September 2020 statistics:
221 users, 91 Administrations



eQry

“Online search on Plans”



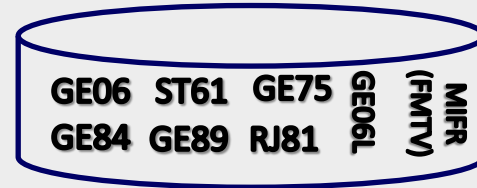
Read-Only copy of BR Database (Updated daily)

Search by:

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

ePub

“Special Sections, the publication day!”



Database Snapshots at publication date

Search by:

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

eTools

“On-demand test calculations”

2020 statistics

Around 2000 jobs run by 125 users from 66 Administrations

Calculation Type

GE06D Plan Modification

GE06D Compatibility Analyses (incl. ATU, ASMG)

GE84 Compatibility Analyses, GE84 Channel Search, GE84 Optimization

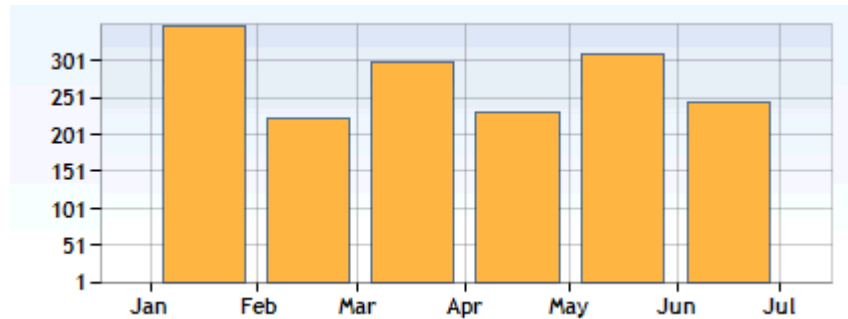


CA Compatibility Analyses

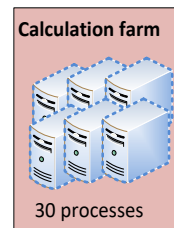
RJ81 Plan modification and what-if studies

ITU-R P.1812 v4 & P.1546 v5

Notice Generation



Back-end infrastructure



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

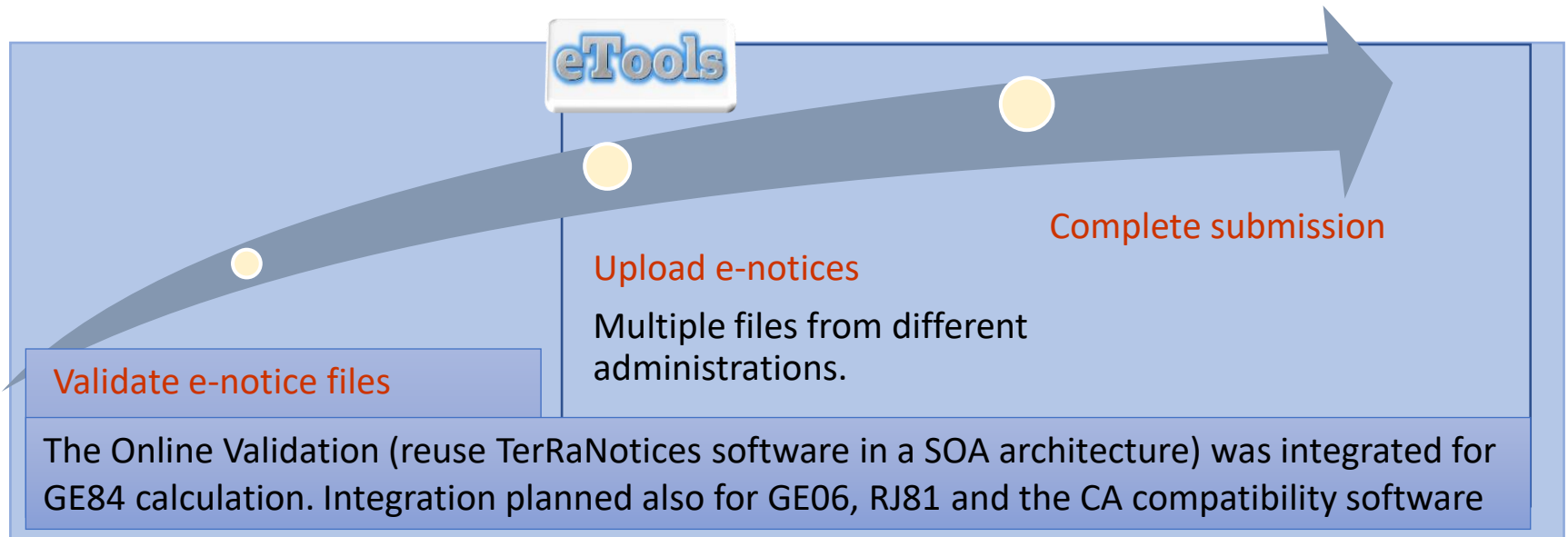
Coverage contours now available!



eTools: e-notice submission

GE06, RJ81, CA Compatibility

GE84



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



Check your E-mail account!

eTools: job processing, privacy and collaboration

Job processing

Beta Release

New Calculation

Refresh

Jobs History for user: manara

Test Packages (click to hide all)

JobId	JobName	JobStatus	JobType	DRequest	DStart	DComplete	TElaps	RunningProcess
79367	test	Success	GE84_compat	9/28/2020 7:03:30 PM	9/28/2020 7:04:10 PM	9/28/2020 7:19:04 PM	16	CALCS_23
79366	test	Success	GE84_compat	9/28/2020 4:45:15 PM	9/28/2020 4:45:59 PM	9/28/2020 4:46:44 PM	1	CALCS_35
79362	test	Success	GE84_compat	9/28/2020 4:38:10 PM	9/28/2020 4:39:05 PM	9/28/2020 4:41:16 PM	3	CALCS_35
79339	test	Success	GE84_compat	9/28/2020 4:18:28 PM	9/28/2020 4:19:02 PM	9/28/2020 4:20:44 PM	2	CALCS_24
79335	test	Success	GE84_compat	9/28/2020 3:49:24 PM	9/28/2020 3:50:09 PM	9/28/2020 3:52:31 PM	3	CALCS_34
79324	test (shared job)	Success	GE84_compat	9/28/2020 2:40:47 PM	9/28/2020 2:41:31 PM	9/28/2020 2:41:42 PM	1	CALCS_31
79275	EMR 12 test (shared job)	Success	GE84_compat	9/25/2020 5:21:14 PM	9/25/2020 5:21:49 PM	9/25/2020 5:23:35 PM	2	CALCS_38
78816	test	Failed	GE84_compat	9/17/2020 9:54:29 AM	9/17/2020 9:54:32 AM	9/17/2020 9:55:12 AM	1	CALCS_40

Job Summary

Job Id: 78816 | Job name: test | Status: Failed

Job Input: Adm: E-notice file: Number of Notices: 1

Configuration Information: Top 20 only, Consider Tip, TV also, Polarization Discrimination (dB): 10, Trigger NFS from proposed modification for EU calculations (dB (µV/m)): 30

Job Output : ERROR

Validation Error:
Parse status: T_PARSE_NTC_INCOMPLETE
Total number of errors: 1
Total number of warnings: 0

Notice 1 (Line 4) - T01/ADD
 Line 1 : Error : L_ant_dir : mandatory key missing or the associated key value is invalid.

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...

... facilitate coordination!

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

Around **950 jobs** shared by **340 users** from **90 Administrations**



GE84 Compatibility Analyses

Job Input

Adm	E-notice file	Number of Notices
BOT	BOEmptycells.txt	1

Configuration Information

Top 20 only
 Consider Tip
 TV also
 Polarization Discrimination (dB)
 Trigger NFS from proposed modification for EU calculations (dB (μV/m))

Job Output

Input notice file validated by the OnlineValidation process on 9/18/2020 10:54:00 AM

Proposed Modification	Administrations with which the limits of 4.3.7.1/4.3.7.2 are exceeded	Eu (dB(μV/m))
87.7MHz_BT 12	NMB BOT	76.26

Select the proposed modification

87.7MHz BT 12

GE84 Compatibility Analyses Description

Result **Interference To** Interference From

Export to Excel

Search:

Assign ID	Adm	Intent	Stn Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance	Cold Sea Path (Km)	Warm Sea Path (Km)	Super refractivity Path (Km)	ERP (dBW)	Azimuth (deg)	Protection Ratio (dB)	NFS (dB(μV/m))	EU Ref (dB(μV/m))	Proposed EU (dB(μV/m))	Current EU (dB(μV/m))	EU increase (dB)
084002236	NMB	RECORDED BC		87.7	H	MARIENTAL	262	0	0	0	47	271	37	72.14	72.28	77.65	72.4	5.25
084004917	BOT	RECORDED BC		87.7	H	GHANZI	335	0	0	0	47	21	37	64.77	63	69.13	63.18	5.95
084002194	NMB	RECORDED BC		87.6	H	KEETMANSHOOP	332	0	0	0	47	225	25	53.12	66.2	67.66	66.27	1.39
084002296	NMB	RECORDED BC		87.6	H	NM 25	335	0	0	0	47	313	25	52.83	70.19	84.52	84.48	0.04
084004822	BOT	RECORDED BC		87.7	H	BT 15.1	518	0	0	0	47	80	37	48.04	71	71.24	71	0.24
092003524	NMB	RECORDED BC		87.6	H	GOBABIS	276	0	0	0	47	322	12	45.7	91.58	91.58	91.58	0
084002560	NMB	RECORDED BC		88	H	NM 71	127	0	0	0	47	270	-7	43.66	62.33	62.91	62.33	0.58
084000411	AFS	RECORDED BC		87.8	H	AUGRABIES	452	0	0	0	47	181	25	41.98	68.09	68.26	68.11	0.15
084002416	NMB	RECORDED BC		87.7	H	OROS	604	0	0	0	47	324	37	40.28	72.75	72.79	72.76	0.03
084000363	AFS	RECORDED BC		87.7	H	PRIESKA	613	0	0	0	47	160	37	39.39	68.92	69.01	68.94	0.07
084002284	NMB	RECORDED BC		87.8	H	NM 23	491	0	0	0	47	295	25	38.55	71.61	71.64	71.61	0.03
084004744	BOT	RECORDED BC		87.8	H	RAKHUNA	524	0	0	0	47	105	25	35.48	75.22	75.24	75.24	0

Showing 1 to 12 of 12 entries

More during GE84 presentation!



GE84Opt



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	HOUMOED	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	---

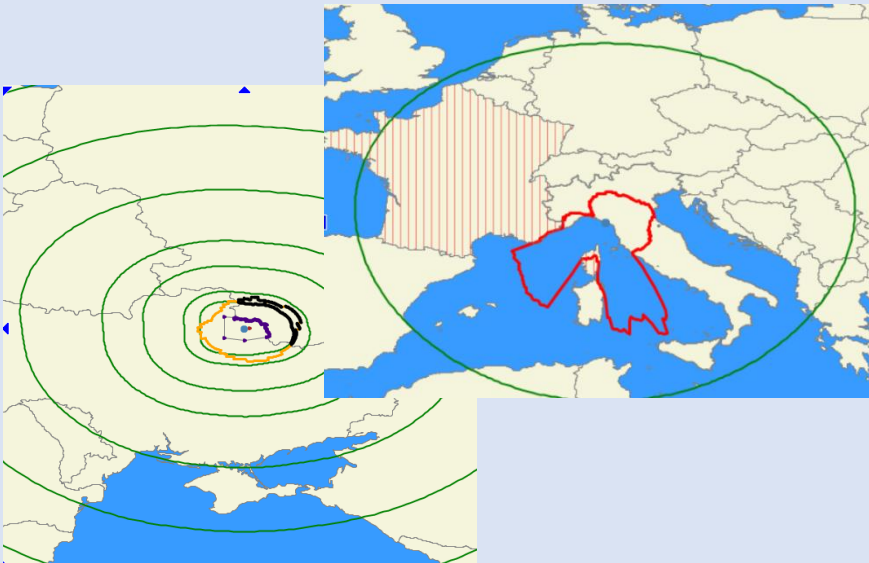


More during GE84 presentation!



eTools: GE06D calculations

GE06D plan modification (coordination/conformity exam)



GE06 compatibility analyses

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

Job Summary

Delete ✖ Share ↗

Job Id	Job name	Status
81567	test	Success

Job Input

Adm	E-notice file	Number of Notices
MRC	MRC1.txt	1

Job Output

[Download results](#)

MS Access mdb file to be visualized with GE06Calc.

Instrumental in planning activities in regional organizations

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

eTools: CA Compatibility calculations

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

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)

[CA Display manual](#)

[CA compat manual](#)

eTools: RJ81 plan modification and what-if studies

eTools Disclaimer

eTools Documentations

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

Please select the calculation type

RJ81 ▾

RJ81 What-if studies ▾

Following CITEI requests
(2014-2015)

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

Job Input

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

Job Output

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

Select the proposed modification

Select the affected protected station

All ▾

All ▾

Result **sw_50%_A** sw_BC gw_D gw_N ov_D ov_N

Export to Excel

Search:

ID Number	Frequency Assigned (kHz)	Country	Station Name	Class of Station	BR 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	

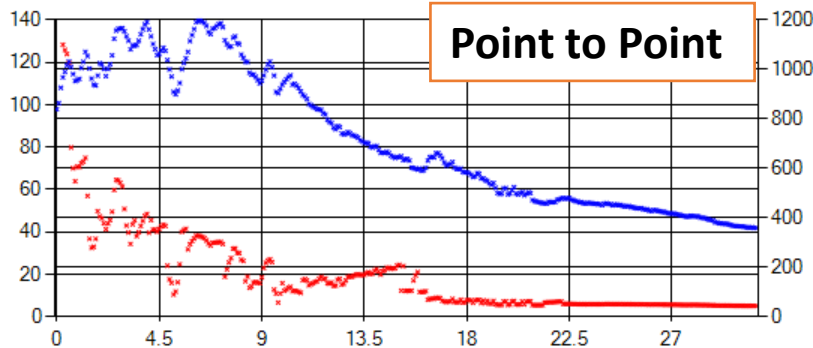
eTools: ITU-R P series calculations

P.1812-4(07-15)

Propagation prediction using terrain profile (deterministic model)

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

SRTM3 terrain database 3 arc-sec resol. (90 m)
Planned to move to 1 arc-sec (30m) in 2019

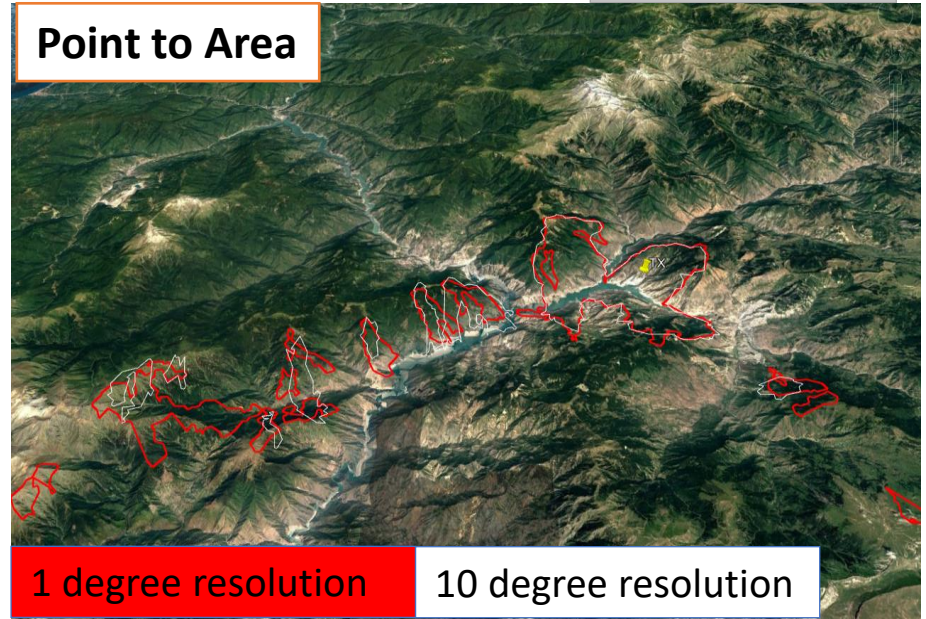


Coverage contours
now available!



Beta Release!

Point to Area



More during Propagation presentation!

eTools: ITU-R P series calculations

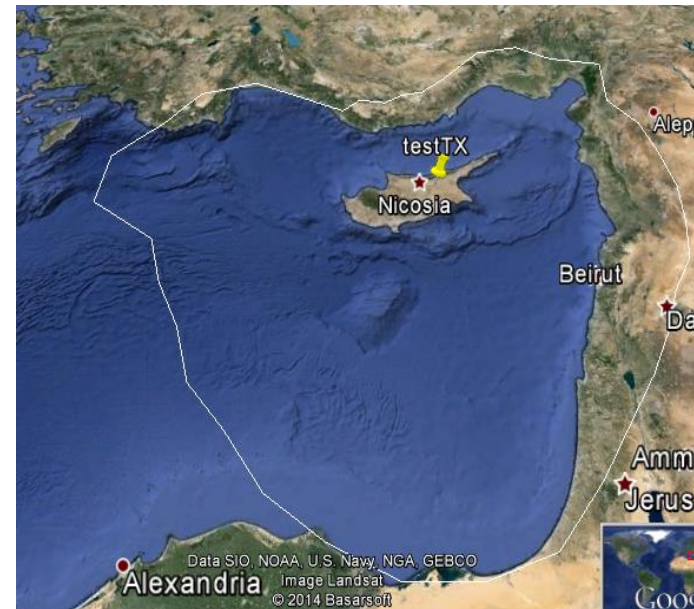
P.1546-5(09-13)

Propagation prediction (empirical model)

- 30 MHz - 3 GHz
- 1 km - 1000 km
- 1% < time < 50%
- 1% < locations < 99%
- TX eff hgt <= 3km

Terrain database can be used (clearance angle correction) to improve accuracy

Point to Area



More during Propagation presentation!

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

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

254 focal points TIES account from **96 administration**

AGL ALG ARM ARS AUS AUT AZE BDI BEL BEN BFA BHR BIH BLR BOL BUL
CHN CME COG CPV CTI CVA CYP CZE D DJI DNK E EGY EST F FIN G GAB
GEO GHA GNE HNG HRV I IND INS IRL IRN J JOR KAZ KGZ KIR KOR LBY
LTU LUX LVA MAU MCO MDA MDG MKD MLA MLI MLT MNE MRC MTN
NOR NZL OMA PAK PHL POL POR PSE QAT ROU RUS S SDN SEY SNG SRB
SSD SUI SVK SVN SYR TGO TUN TUR TZA UAE UGA UKR UZB VTN ZMB
ZWE

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

brbcd@itu.int

myAdmin MailBox: Latest Special Sections

Focal point only

Adm (ITU) MailBox GE06D GE84 GE89 ST61 GE75 MIFR



Latest Special Sections annex to the latest BR IFIC (2935) on date 8 Dec 2020

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

Plan	Special Section	PubPart	Number of Notices
GE84	295	A	6

Adm (ITU) MailBox GE06D GE84 GE75 MIFR



Latest Special Sections annex to the latest BR IFIC (2935) on date 8 Dec 2020

Plan modifications affecting your administration to be published (Internal site ONLY)

Plan	Special Section	PubPart	Number of Notices
GE84	295	A	2

myAdmin MailBox: Output correspondence

Focal point only

BR Outgoing Correspondence (BETA)

MailBox

GE06D

GE84

ST61

GE75

MIFR

ALL



Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE06	173	Publication of Special Section	24 Nov 2020	7 Feb 2021	31B(BCD)O-2020-004652	67
GE84	294	Publication of Special Section	10 Nov 2020	30 Dec 2020	31E(BCD)O-2020-004407	28
GE84	291	70 days reminder	28 Oct 2020	26 Nov 2020	31E(BCD)O-2020-004251	expired
GE84	293	Publication of Special Section	14 Oct 2020	2 Dec 2020	31E(BCD)O-2020-003944	0
GE75	181	10 months reminder	12 Oct 2020	9 Dec 2020	31C(BCD)O-2020-003808	7
GE84	291	50 days reminder	8 Oct 2020	18 Oct 2020	31E(BCD)O-2020-003910	expired
GE06	166	4.1.4.10	5 Oct 2020	14 Nov 2020	31B(BCD)O-2020-003828	expired
GE06	168	4.1.4.10	5 Oct 2020	14 Nov 2020	31B(BCD)O-2020-003831	expired
GE84	290	70 days reminder	30 Sep 2020	29 Oct 2020	31E(BCD)O-2020-003751	expired
GE06	171	Publication of Special Section	29 Sep 2020	13 Dec 2020	31B(BCD)O-2020-003716	11
GE84	292	Publication of Special Section	15 Sep 2020	4 Nov 2020	31E(BCD)O-2020-003587	expired
GE06	170	Publication of Special Section	1 Sep 2020	15 Nov 2020	31B(BCD)O-2020-003341	expired
GE06	167	4.1.4.10	18 Aug 2020	27 Sep 2020	31B(BCD)O-2020-003173	expired
GE06	167	4.1.4.10 (notifier)	18 Aug 2020	N/A	31B(BCD)O-2020-003174	N/A

Plans and MIFR dashboard



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


MailBox
GE06D
GE84
ST61
RJ81

Recorded Assignments	12200
Notices under treatment	190
Notices under treatment ready for Part B	1
Notices under treatment receiving objection	113
Notices under treatment which affect me	214
Notices under treatment which affect me I objected to	75
Comments received in the last period (30 days)	17
Converted assignments that cannot be processed because the respective allotment is in the coordination process	36

GE06D/RUS

[Export to Excel](#)
[Export to PDF](#)
[Google Earth](#)
[Generate e-notices \(Export to SGML\)](#)
[Print](#)

Adm Id	BR Id	Adm	Intent	PE	Site/Allot Name	TV Channel / Freq Block	Coord Completed
RUS1604030633BT	120006930	RUS	ADD	3	KANDALAKSHA MURM	22	FIN S
RUS1604030638BT	120006932	RUS	ADD	3	ZARECHENSK MURM	22	FIN S
RUS1604030642BT	120006933	RUS	ADD	3	ZELENOBORSKII MURM	22	FIN S
RUS1604030643BT	120006931	RUS	ADD	3	POLIARNYE ZORI MURM	22	FIN S
RUS1604030645BT	120006934	RUS	ADD	3	KANDALAKSHA MURM	23	FIN S
RUS1604030655BT	120006935	RUS	ADD	3	POLIARNYE ZORI MURM	23	FIN S
RUS1604030662BT	120006936	RUS	ADD	3	ZARECHENSK MURM	23	FIN S
RUS1604030663BT	120006937	RUS	ADD	3	ZELENOBORSKII MURM	23	FIN S
RUS1604030666BT	120006938	RUS	ADD	3	KANDALAKSHA MURM	24	FIN S
RUS1604030674BT	120006939	RUS	ADD	3	POLIARNYE ZORI MURM	24	FIN S
RUS1604030683BT	120006940	RUS	ADD	3	ZARECHENSK MURM	24	FIN S
RUS1604030684BT	120006941	RUS	ADD	3	ZELENOBORSKII MURM	24	FIN S
RUS1604030730BT	120006942	RUS	ADD	3	KANDALAKSHA MURM	29	FIN S
RUS1604030742BT	120006943	RUS	ADD	3	POLIARNYE ZORI MURM	29	FIN S
RUS1604030747BT	120006944	RUS	ADD	3	ZARECHENSK MURM	29	FIN S
RUS1604030748BT	120006945	RUS	ADD	3	ZELENOBORSKII MURM	29	FIN S
RUS1604030802BT	120006946	RUS	ADD	3	KANDALAKSHA MURM	34	FIN S
RUS1604030803BT	120006947	RUS	ADD	3	POLIARNYE ZORI MURM	34	FIN S
RUS1604030804BT	120006948	RUS	ADD	3	ZARECHENSK MURM	34	FIN S
RUS1604030805BT	120006949	RUS	ADD	3	ZELENOBORSKII MURM	34	FIN S
RUS1604030806BT	120006950	RUS	ADD	3	KANDALAKSHA MURM	35	FIN S
RUS1604030813BT	120006951	RUS	ADD	3	POLIARNYE ZORI MURM	35	FIN S
RUS1604030820BT	120006952	RUS	ADD	3	ZARECHENSK MURM	35	FIN S
RUS1604030821BT	120006953	RUS	ADD	3	ZELENOBORSKII MURM	35	FIN S
RUS1604030854BT	120006954	RUS	ADD	3	KANDALAKSHA MURM	39	FIN S
RUS1604030858BT	120006955	RUS	ADD	3	POLIARNYE ZORI MURM	39	FIN S
RUS1604030860BT	120006956	RUS	ADD	3	ZARECHENSK MURM	39	FIN S
RUS1604030861BT	120006957	RUS	ADD	3	ZELENOBORSKII MURM	39	FIN S
RUS1604030873BT	120006958	RUS	ADD	3	KANDALAKSHA MURM	41	FIN S
RUS1604030879BT	120006959	RUS	ADD	3	POLIARNYE ZORI MURM	41	FIN S
RUS1604030886BT	120006960	RUS	ADD	3	ZARECHENSK MURM	41	FIN S
RUS1604030887BT	120006961	RUS	ADD	3	ZELENOBORSKII MURM	41	FIN S
RUS1604030912BT	120006962	RUS	ADD	3	KANDALAKSHA MURM	47	FIN S
RUS1604030916BT	120006963	RUS	ADD	3	POLIARNYE ZORI MURM	47	FIN S
RUS1604030920BT	120006964	RUS	ADD	3	ZARECHENSK MURM	47	FIN S
RUS1604030921BT	120006965	RUS	ADD	3	ZELENOBORSKII MURM	47	FIN S

Plans and MIFR dashboard



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

MailBox GE06D **GE84** ST61 RJ81 GE75 MIFR

GE84/F

Recorded Assignments	7647
Notices under treatment	11
Notices under treatment ready for Part B	2
Notices under treatment receiving objection	4
Notices under treatment which affect me	148
Notices under treatment which affect me I objected to	3
Comments given in the last period (30 days)	30
Comments received in the last period (30 days)	1
Notices to be deleted after 2 years and 100 days (60 days early warning)	1

Export to Excel Export to PDF Google Earth Generate e-notices (Export to SGML) Print Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
120234005	F	BRUMATH	107.7	ADD	294	18 Feb 2021	AUT BEL D HOL I LIE SUI		AUT BEL CZE D HOL I LIE LUX SUI
120234006	F	PFETTISHEIM	107.7	ADD	294	18 Feb 2021	AUT BEL D HOL I LIE SUI		AUT BEL CZE D HOL I LIE LUX SUI
120233831	F	OSTHOFFEN	107.7	ADD	294	18 Feb 2021	AUT BEL D HOL I LIE SUI		AUT BEL CZE D HOL I LIE LUX SUI
120233832	F	VENDENHEIM	107.7	ADD	294	18 Feb 2021	AUT BEL D HOL I LIE SUI		AUT BEL CZE D HOL I LIE LUX SUI
120222431	F	FONT ROMEU ROC D ERR	98.7	ADD	293	21 Jan 2021	E		AND E I MCO
120146686	F	CHINON PARILLY	99.6	ADD	289		E		BEL E G LUX SUI
120146687	F	CHINON PARILLY	92.9	ADD	289		E		BEL E G LUX SUI
120111072	F	BEZIERS COURONDELLE	93.2	MODIFY	288		MCO	E	AND E I MCO SUI
118104697	F	PERPIGNAN	94.2	ADD	272		I MCO SUI	E	AND E I MCO SUI
118100866	F	LODEVE MAS FIGNOLS	104.1	ADD	271		MCO SUI	E	AND E I MCO SUI
118077585	F	CAVALAIRE SUR MER	90.4	MODIFY	268		AUT CVA D E I LIE SMR SUI	MCO	AND AUT CVA D E I LIE MCO SMR SUI

GE84/F

Export to Excel Export to PDF Google Earth **Generate TB3** Print Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
120146686	F	CHINON PARILLY	99.6	ADD	289		E		BEL E G LUX SUI
120146687	F	CHINON PARILLY	92.9	ADD	289		E		BEL E G LUX SUI

Plans and MIFR dashboard



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

MailBox GE06D **GE84** ST61 RJ81 GE75 MIFR

Recorded Assignments	7647
Notices under treatment	11
Notices under treatment ready for Part B	2
Notices under treatment receiving objection	4
Notices under treatment which affect me	148
Notices under treatment which affect me I objected to	3
Comments given in the last period (30 days)	30
Comments received in the last period (30 days)	1
Notices to be deleted after 2 years and 100 days (60 days early warning)	1

GE84/F

Export to Excel Export to PDF Google Earth Generate e-notices (Export to SGML) Print Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
120111072	F	BEZIERS COURONDELLE	93.2	MODIFY	288		MCO	E	AND E I MCO SUI
118104697	F	PERPIGNAN	94.2	ADD	272		I MCO SUI	E	AND E I MCO SUI
118100866	F	LODEVE MAS FIGNOLS	104.1	ADD	271		MCO SUI	E	AND E I MCO SUI
118077585	F	CAVALAIRE SUR MER	90.4	MODIFY	268		AUT CVA D E I LIE SMR SUI	MCO	AND AUT CVA D E I LIE MCO SMR SUI

GE84/F

Export to Excel Export to PDF Google Earth Generate e-notices (Export to SGML) Print Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
120222431	F	FONT ROMEU ROC D ERR	98.7	ADD	293	21 Jan 2021	E		AND E I MCO


GE84

Export to Excel Export to PDF Google Earth Generate e-notices (Export to SGML) Print Search:

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
118077585	F	CAVALAIRE SUR MER	90.4	MODIFY	268		AUT CVA D E I LIE SMR SUI	MCO	AND AUT CVA D E I LIE MCO SMR SUI


eBroadcasting: E-mail notification services

Focal point only

Sun 11/27/2016 4:49 AM  Every Sunday 4.00 a.m.


eBCD, ITU

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

Wed 11/23/2016 4:46 AM 

eBCD, ITU

Publication of your proposed plan modifications (G)

Wed 11/23/2016 4:46 AM 

eBCD, ITU

Publication of plan modifications affecting your administration (RUS)

To Shibaeva, Polina (TIES); p.shibaeva@grfc.ru; Sidelnikova, Svetlana (TIES); s.sidelnikova@grfc.ru

Dear Madam/Sir

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

Plan	Special Section	NoNotices
GE84	246	73

assgn_id	pub_id
116113557	119
116113558	119
116150059	122

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

Plan	Special Section	NoNotices
GE84	246	73

eBroadcasting: E-mail notification services

Special Section GE84/294 of BRIFIC No 2933 dated Tuesday, November 10, 2020 (AUT) 31E(BCD)O-2020-004407



eBCD, ITU

To ernst.cerny@bmvit.gv.at; jakob.gschiel@rtr.at; thomas.janiczek@rtr.at; freq.koord@rtr.at; peter.reindl@rtr.at; brigitte.halbertschlager@bmvit.gv.at; verena.pfau@rtr.at; axel.baier@rtr.at; anna.karlicky@rtr.at
Cc [Traore, Bangaly-Fodé](#)

↶ Reply ↶ Reply All → Forward ⋮

Tue 10/11/2020 20:25

Focal point only

Dear Madam/Sir

On date Tuesday, November 10, 2020 the Bureau addressed you a correspondence (Ref. No.31E(BCD)O-2020-004407) concerning the above-mentioned Special Section.

The Bureau wishes to inform you that this correspondence will be available tomorrow also in the Mailbox section of the [myAdmin](#) portal.



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

Adm (ITU) MailBox GE06D GE84 ST61 GE75 MIFR

Welcome user manara

BR Outgoing Correspondence (BETA release)

GE84

Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE84	293	Publication of Special Section	14 Oct 2020	2 Dec 2020	31E(BCD)O-2020-003944	2
GE84	294	Publication of Special Section	10 Nov 2020	30 Dec 2020	31E(BCD)O-2020-004407	30
GE84	291	50 days reminder	8 Oct 2020	18 Oct 2020	31E(BCD)O-2020-003910	expired
GE84	292	Publication of Special Section	15 Sep 2020	4 Nov 2020	31E(BCD)O-2020-003587	expired
GE84	291	Publication of Special Section	18 Aug 2020	7 Oct 2020	31E(BCD)O-2020-003157	expired



eMIFR

eMIFR: MIFR (Terrestrial Services) on-line query

BETA release

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
AIT

Status:

Recorded

Pending

Not published

Frequency:

Unit: kHz

Fmin

Fmax

Fmin ≤ Assigned Freq. ≤ Fmax only

Date of Receipt:

From:

To:

BR Assign Id:

From:

To:

Admin. Id:

Site Name: TORINO

Apply filter

eMIFR

MIFR (All)

Export to Excel Export to PDF **Google Earth** Generate e-notices (Export to SGML) Print Search:

BR Id	Adm	Geo Area	Site Name	Location	Assigned Frequency (MHz)	Intent	Notice Type	StnCls	Tran Sys
080009480	I	I	TORINO CASELLE	007°39'00" E - 45°07'00" N	0.357	RECORDED	1A1	AL	
080011266	I	I	TORINO	007°52'00" E - 44°55'00" N	0.305	RECORDED	1A1	AL	
080015495	I	I	TORINO						
080028334	I	I	TORINO						
080028334	I	I	TORINO						
080035097	I	I	TORINO						
080035097	I	I	TORINO						
080037552	I	I	TORINO						
080037552	I	I	TORINO						
080041862	I	I	TORINO						
080042641	I	I	TORINO						
080042976	I	I	TORINO						
080042976	I	I	TORINO						
080043207	I	I	TORINO						
080043207	I	I	TORINO						
080046132	I	I	TORINO						

Map-centric navigation

Google Earth

Imagery Date: 9/9/2019 45°02'00.03" N 7°44'00.03" E elev 692 m eye alt 772 m

eMIFR

MIFR (All)

Export to Excel Export to PDF Google Earth **Generate e-notices (Export to SGML)** Print

BR Id	Adm	Geo Area	Site Name	Location	Assigned Frequency (MHz)	Intent	Noti
080009480	I	I	TORINO CASELLE	007°39'00" E - 45°07'00" N	0.357	RECORDED	1A1
080011266	I	I	TORINO	007°52'00" E - 44°55'00" N	0.3925	RECORDED	1A1
080015495	I	I	TORINO	007°44'00" E - 45°02'00" N	0.657	RECORDED	1A2
080028334	I	I	TORINO	007°41'00" E - 45°05'00" N	2.037	RECORDED	1A1
080028334	I	I	TORINO	007°41'00" E - 45°05'00" N	2.037	RECORDED	1A1
080035097	I	I	TORINO	007°41'00" E - 45°05'00" N	2.226	RECORDED	1A1
080035097	I	I	TORINO	007°41'00" E - 45°05'00" N	2.226	RECORDED	1A1
080037552	I	I	TORINO	007°42'00" E - 45°04'00" N	2.281	RECORDED	1A1
080037552	I	I	TORINO	007°42'00" E - 45°04'00" N	2.281	RECORDED	1A1

```

:HEAD>
:_adm=I
:/HEAD>
:NOTICE>
:_notice_type=T02
:_fragment=NTFD_RR
:_action=ADD
:_freq_assgn=212.5000
:_long=+0074200
:_lat=+450600
:_site_name=TORINO COLLINA
:_addr_code=A
:_ant_dir=D
:_erp_v_dbw=13.000
:_op_hh_to=24:00
:_d_inuse=1957-08-02
:_pwr_ratio=10
:_op_hh_fr=00:00
:_polar=V
:_tran_sys=B
:_eff_hgtmax=50
:_op_agcy=020
:_freq_stabl=RELAXED
:_ctry=I
:/NOTICE>
:NOTICE>
:_notice_type=T12
:_fragment=NTFD_RR
:_action=ADD
:_freq_assgn=281.400000
:_long=+0073800
:_lat=+451100
:_site_name=TORINO CASELLE
:_addr_code=A
:_op_hh_to=24:00
:_prov=RR11.2
:_emi_cls=A3E--
:_d_inuse=1976-08-01
:_op_hh_fr=00:00
:_station_id=TORINO CASELLE RADAR
:_bdwth_cde=6K00
:_is_resub=FALSE
:_stn_cls=FA
:_ctry=I
:_nat_srv=CO
:_op_agcy=010
:ANTENNA>
:_pwr_xyz=Y
    
```

eTools

NoticeGeneration NoticeGeneration

Refresh manara

obs History for user: manara

▼ Test Packages (click to show all)

Job Summary Delete ✖ Share ➦

Job Id	Status
10875	Success

Adm	E-notice file	Number of Notices
I	manara_I_11_637425112298669192.txt	11

Job Output
manara_I_11_637425112298669192_out.txt

eMIFR

Assigned Frequency (kHz)	357	Nature of Service	
Reference (carrier) Frequency		Frequency deviation (MHz)	
Class of Emission	A2A--	Energy dispersal (kHz)	
Bandwidth Code	2K10	System Type Code(s)	

FXM

Station and Site Information	
Site Name	TORINO
Class of station	I
Station Type	FM
Geographical Type	FM
Zone ID	

FMTV

Site Characteristics	
Transmitting Antenna Site Name	TORINO
Geographic Area	I
Longitude	7° E 44' 0"
Latitude	45° N 2' 0"
Altitude of site above sea level (m)	

Emission Characteristics	
Assigned Frequency (MHz)	65.7
Bandwidth (kHz)	80
Frequency Block	
TV channel	40
Antenna Directivity	NI
Polarization	H
Height of Antenna Above Ground Level (m)	60
Maximum Effective Antenna Height (m)	

Administrative			
Technical Characteristics			
Region	I	Assigned Frequency (kHz)	657
Geographic Area	I	Ground Conductivity(mS/m)	3
Transmitting Antenna Site Name	TORINO	Synchronization Network	I_657
Longitude	7° E 44' 0"	Noise Zone	A
Latitude	45° N 2' 0"		

Day Time Operation			
Carrier Power (kW)	50.11872	Azimuth of Maximum Radiation(°)	
Bandwidth (kHz)	9	Maximum Radiation (dB)	17.4
Antenna Type	A	Effective Monopole Radiated Power (kW)	
Class of Emission	A3E--	Height of Antenna Above Ground Level (m)	80
Transmission System	ANALOG	Hours of operation	0-2400
Adjacent Protection Ratio (dB)			

Night Time Operation			
Carrier Power (kW)	50.11872	Azimuth of Maximum Radiation(°)	
Bandwidth (kHz)	9	Maximum Radiation (dB)	17.4
Antenna Type	A	Effective Monopole Radiated Power (kW)	
Class of Emission	A3E--	Height of Antenna Above Ground Level (m)	80
Transmission System	ANALOG	Hours of operation	0-2400
Adjacent Protection Ratio (dB)			

Remarks	
Remarks (ITU)	Updated MIFR assignment to be kept (AN- H X/GE06) base
Remarks (Administration)	

Thank you!

ITU – Radiocommunication Bureau

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



Tool demonstration and 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: eTools

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 P1812P2P or P1546 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).