



ITUWRS
GENEVA2024

2-6 December 2024
Geneva, Switzerland



ITU World Radiocommunication Seminar

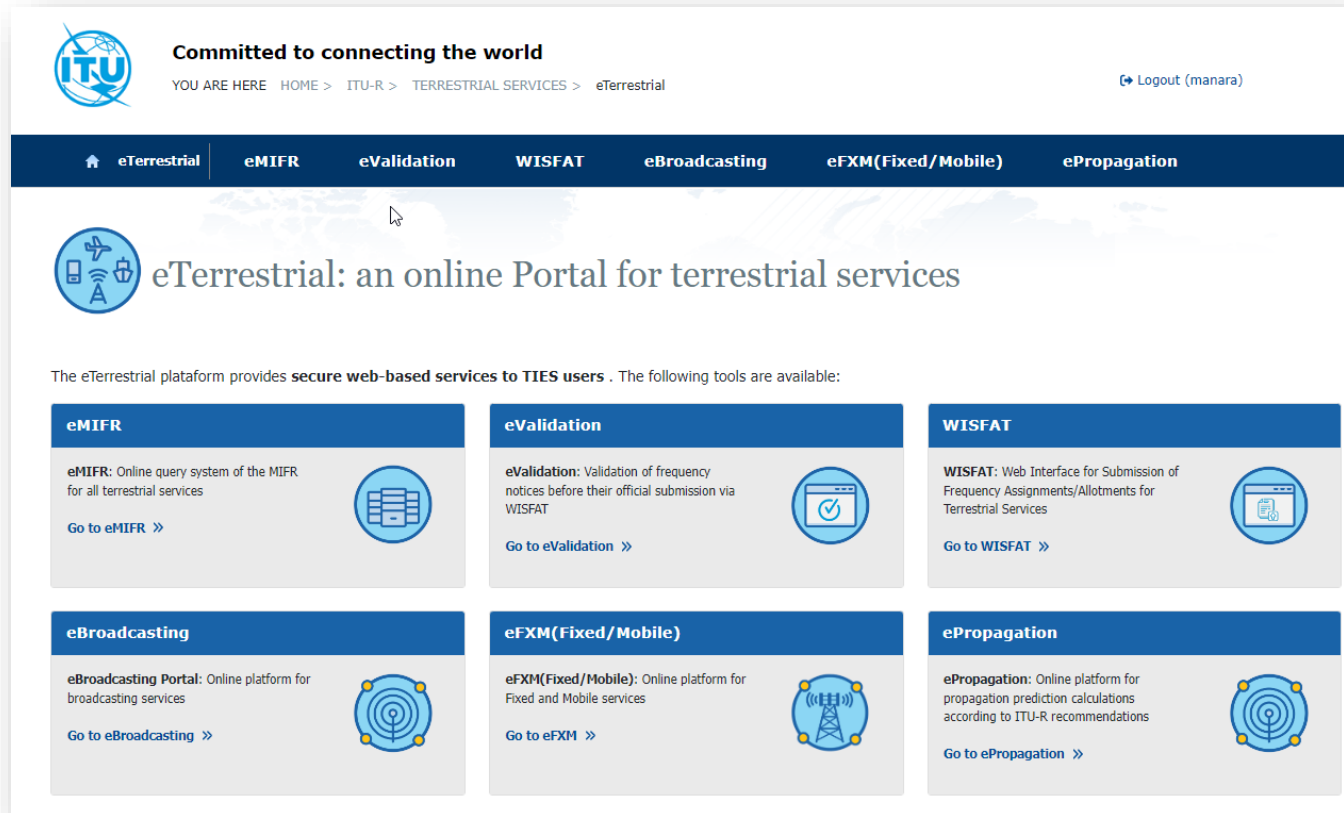
e-Terrestrial platform

Online tools and electronic communication means for terrestrial services

2-6 December 2024, Geneva, Switzerland

- **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>




The screenshot shows the eTerrestrial website interface. At the top left is the ITU logo with the tagline "Committed to connecting the world". Below it is a breadcrumb trail: "YOU ARE HERE HOME > ITU-R > TERRESTRIAL SERVICES > eTerrestrial". On the top right is a "Logout (manara)" link. A dark blue navigation bar contains the following menu items: "eTerrestrial", "eMIFR", "eValidation", "WISFAT", "eBroadcasting", "eFXM(Fixed/Mobile)", and "ePropagation". Below the navigation bar is a large header section with a globe background. It features a circular icon with a smartphone, a plane, and a radio tower, followed by the text "eTerrestrial: an online Portal for terrestrial services". Below this header, a paragraph states: "The eTerrestrial platform provides secure web-based services to TIES users . The following tools are available:". This is followed by six service cards arranged in a 2x3 grid. Each card has a blue header with the service name, a description, a "Go to" link, and a circular icon representing the service.

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**
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 >>](#)

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_Compact**
- **2018: P1812 P2A coverages**
- **2020: GE84 Optimization**
- **2022: eTerrestrial**
- **2022: CAC List display**



eTerrestrial: an online Portal for terrestrial services

New release for WRS-24!



- **Tools Addition eFXM**
 - myAdminFXM
 - **eBroadcasting**
 - eHFBC integration
 - **ePropagation**
 - P1546 Multipoint2Point
 - **myAdmin**
 - Integration of incoming correspondence for GE84 comments
 - **New map template library, being integrated**
- **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

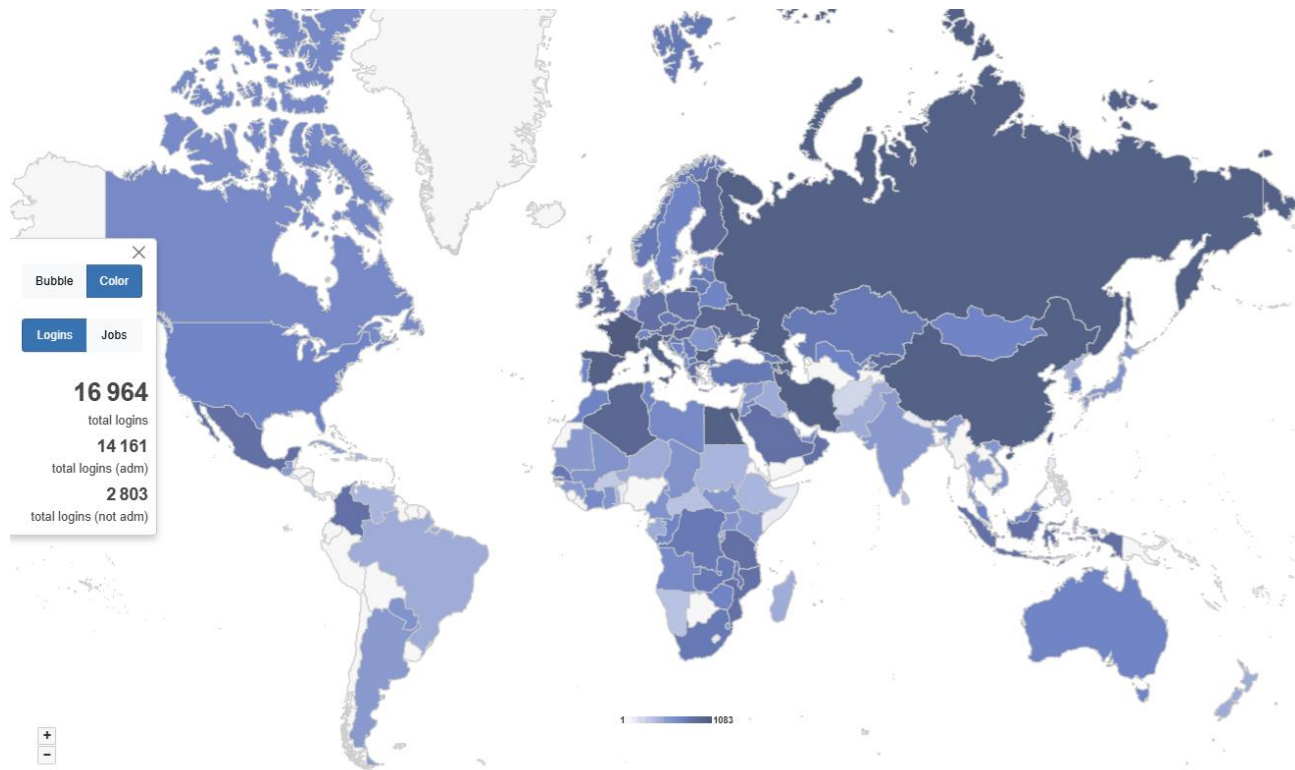
- Reduce workload on both BR and administrations
- Reduce the need for printed documents

Output



eQuery (All TIES users)	<p>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.</p> <p>Go to eQuery >></p>
ePub (All TIES users)	<p>ePub contains the broadcasting publication online. It allows administrators to consult Special Sections as soon as they are published. All broadcasting publications since 2007 are available.</p> <p>Go to ePub >></p>
eTools (All TIES users)	<p>eTools offers calculation on-demand in the scope of the GE06, GE84 and R381 agreements for testing purposes.</p> <p>Go to eTools >></p>
My Admin (Administration Focal Point ONLY)	<p>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.</p> <p>Go to myAdmin >></p>

eHFBC (All users)	<p>The eHFBC platform provides online access to the HFBC Publications and HFBC reference data, as well as the tools to generate and validate HFBC requirement files before submission to the ITU</p> <p>Go to eHFBC >></p>
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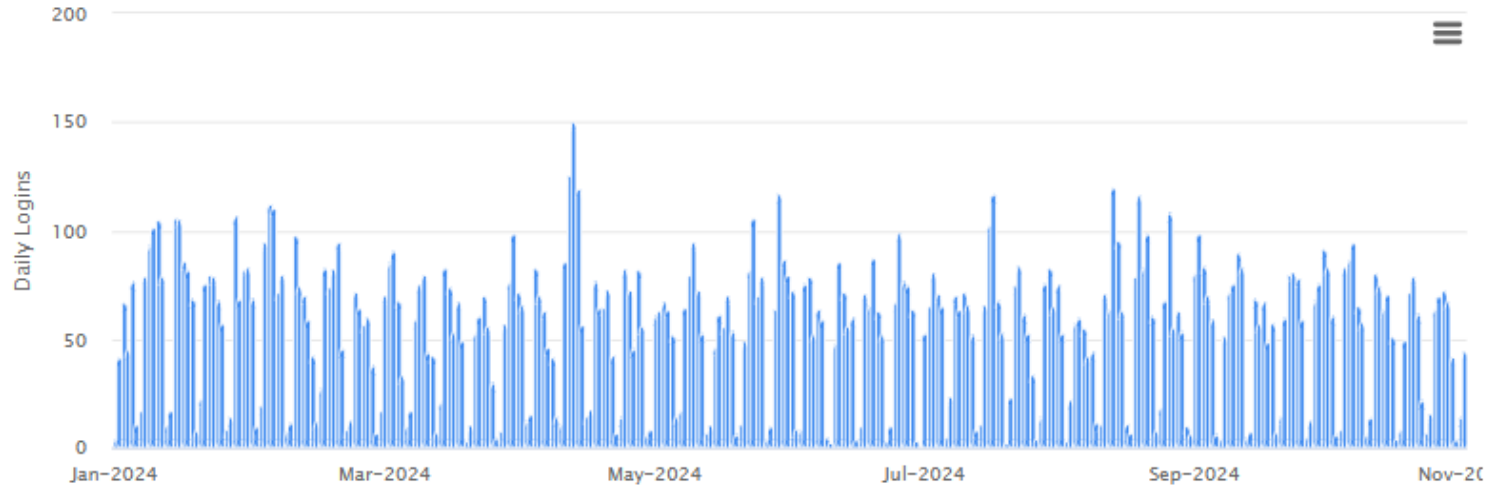


2024 statistics



Events

Logins Trend (Daily)



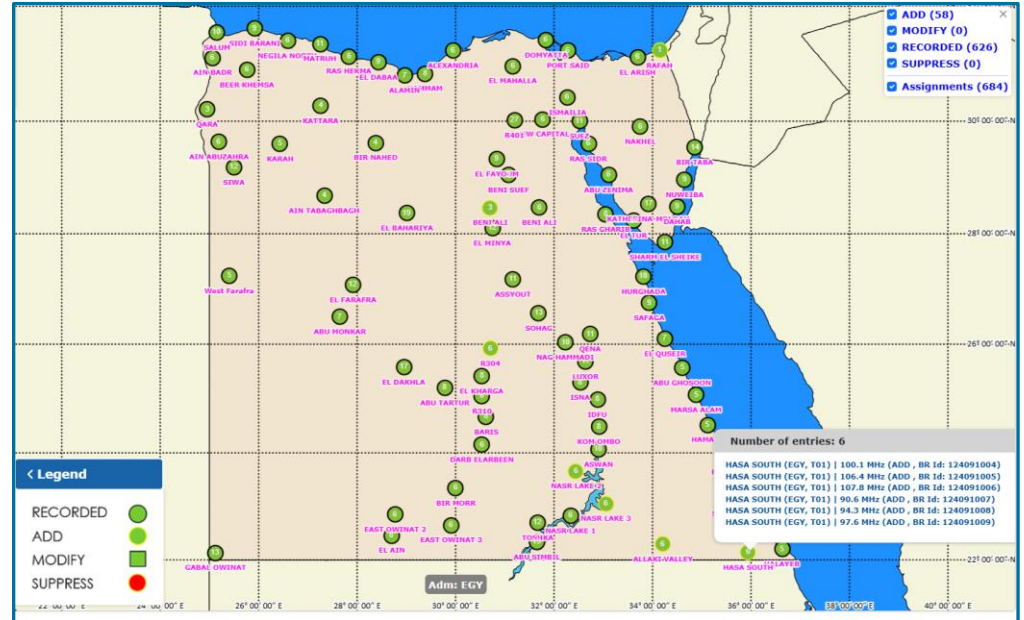
<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/eQuery>

CAC
GE06
ST61
GE75
GE01
GE84
GE89
RJ81

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



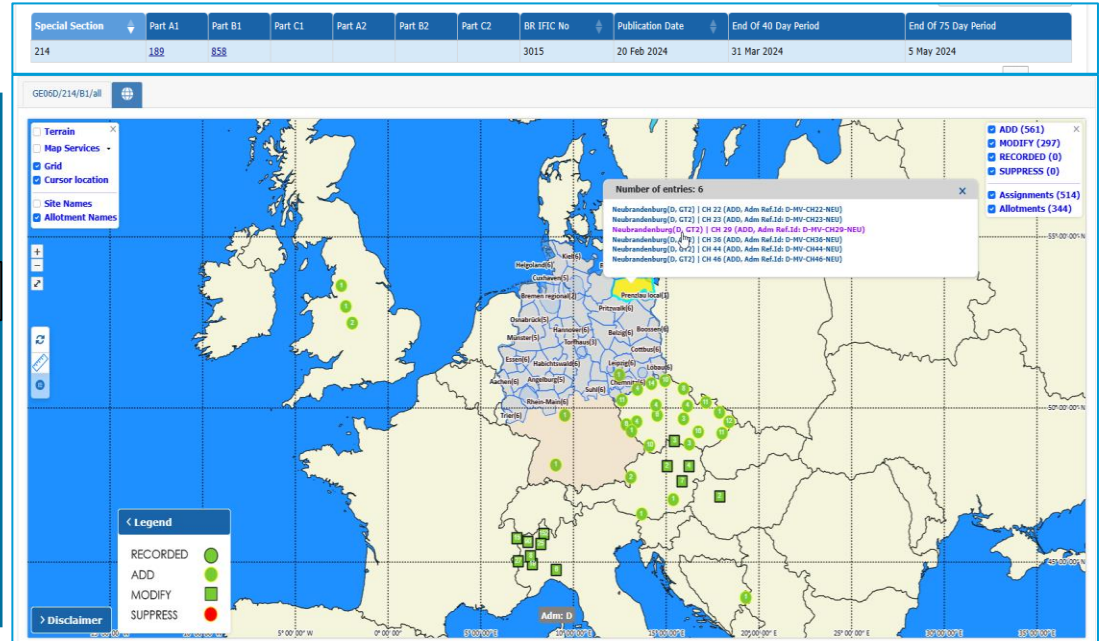
<https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/ePub>

GE06 ST61 GE75 GE06L (FMTV) MFR
GE84 GE89 RJ81 9E06L

Database Snapshots (at publication date)

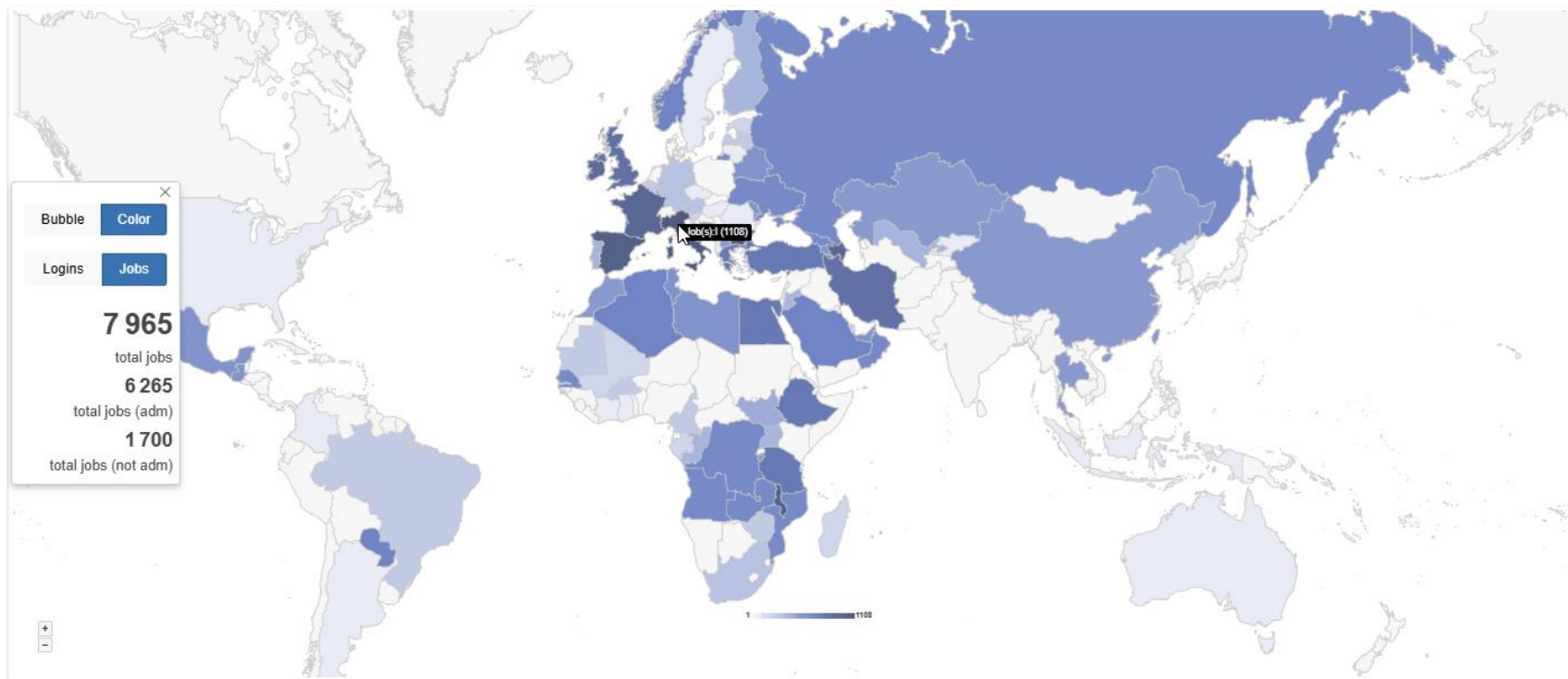
Search by:

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



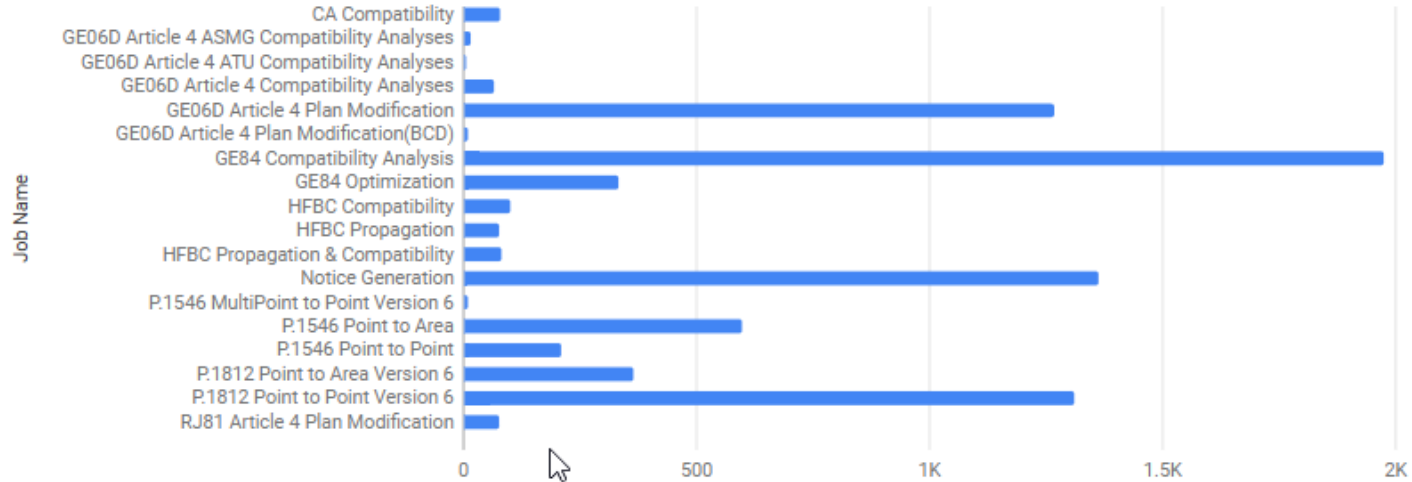
All Special Section for broadcasting plans since 2007

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

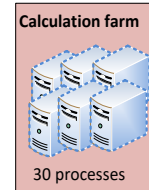
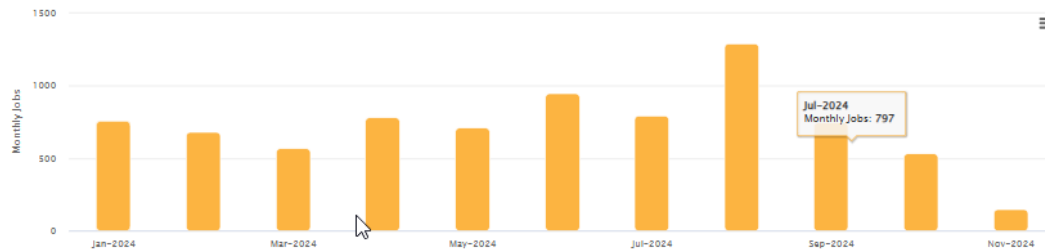


2024 statistics

Jobs (By Type)



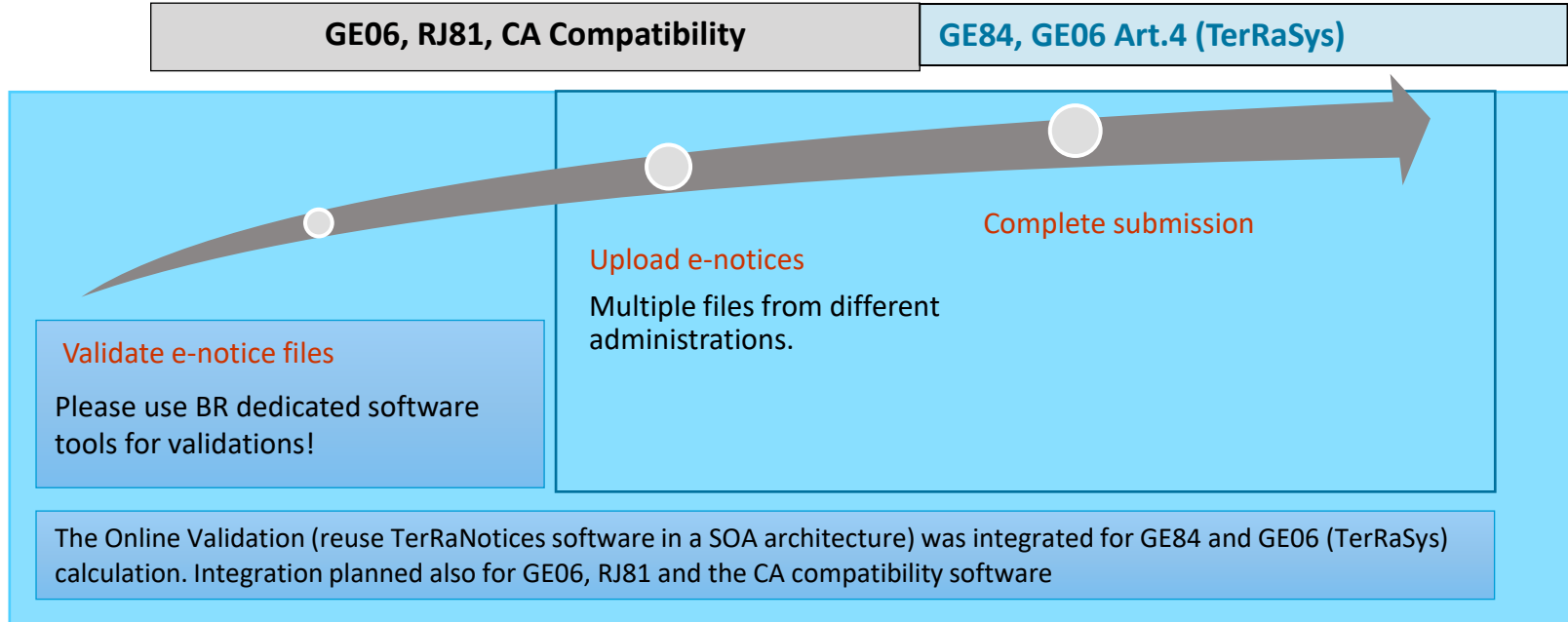
Jobs Trend (Monthly)



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
18515	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

Addr: 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 84 (Line 8101) - T01/ADD
Line 8101 : 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) - T02/ADD
Line 10080 : DeepVal Error - GE84 Assioned 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

Approximately 1,720 jobs from users across 72 administrations were shared with 925 users from 111 different administrations.



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

... to facilitate coordination...



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



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

More during GE84 workshop!

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	Mailyasai 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	KOKSARAI 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	96.22	0
113066070	KGZ	RECORDED	BC	88.1	V	PPC30	24	-	-	-	38.6	158	-20	41.61	94.31	76.94	76.93	0.01

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

More during GE84 workshop!

Showing results for assignable requirements from NMB

Select requirement:

Instrumental in planning activities in ATU (2020-2022)

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

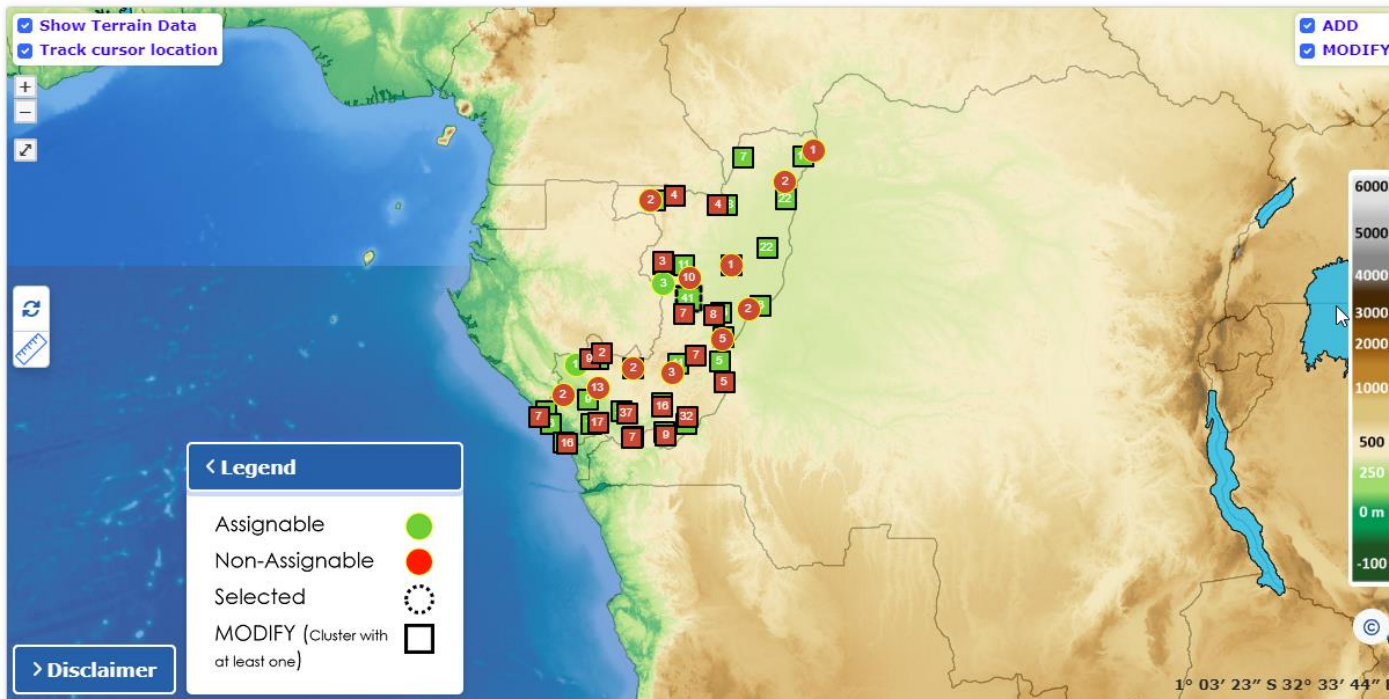
Frequency (MHz)	Top five interferers															
	Assign ID	Adm.	Intent	Class	Freq.	Pol.	Site Name	Dist.	Cold Sea	Warm Sea	Sup. Refr.	ERP	Azim.	Prot. Ratio	NFS	Coord.
FLEX	66	AFS	ADD	BC	FLEX	H	AUGRABIES	73	0	0	0	47	310.9	45	101.16	---
	70	AFS	ADD	BC	FLEX	H	NOENIEPUT	76	0	0	0	47	216.8	45	97.01	---
	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 Generate (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	---

More during GE84 workshop!

Adm	Submitted	Assignable	Non Assignable
COG	606	373	233



Summary [BANDA | 95.6 MHz (ADD)] 95.6MHz | List of Interferers 95.6MHz | List of Affected

NFS Calculation with P1812v4 (Beta)

Show Terrain Data

Track cursor location

< Legend

- Wanted**
- Wanted (ADD) ▲
- Wanted (MODIFY) ◆
- Contributors**
- NFS <= NFS max ●
- NFS > NFS max ●
- NFS > NFS max (Accepted) ●
- Recorded ○
- TIP (ADD) ○
- TIP (Cluster with at least one MODIFY) ○
- Selected ○

> Disclaimer

Transmitter Info (click to hide)

Adm	Name	BR Assigned to
GAB	MAKONGOGNO	7763
Freq (MHz)	long(DOORMS)	lat(DOORMS)
95.6	0114238	-020251
Pol.	hgt (m)	Eqz (m)
Vertical	60	33

Receiver Info (click to show)

Propagation Model (click to hide)

% of location: 50 Reception Type: Outdoor DEM: SRTM3

FS Labels (click to show)

Results (click to hide)

Tropo. Calculation		Steady Calculation	
Job id (1% of Time)	Job id (50% of Time)	Pol Dis (dB)	F. Sadj (Hz)
153386	153385	10	0
PR Troposphere (dB)	PR Steady (dB)	Dsp (m)	Adm (m)
37	45	157.5	175
FS 1% of Time (dB/y/m)	FS 50% of Time (dB/y/m)	NFS (dB/y/m)	
24.13	17.73	52.73 (Steady)	

Showing 1 to 19 of 19 entries

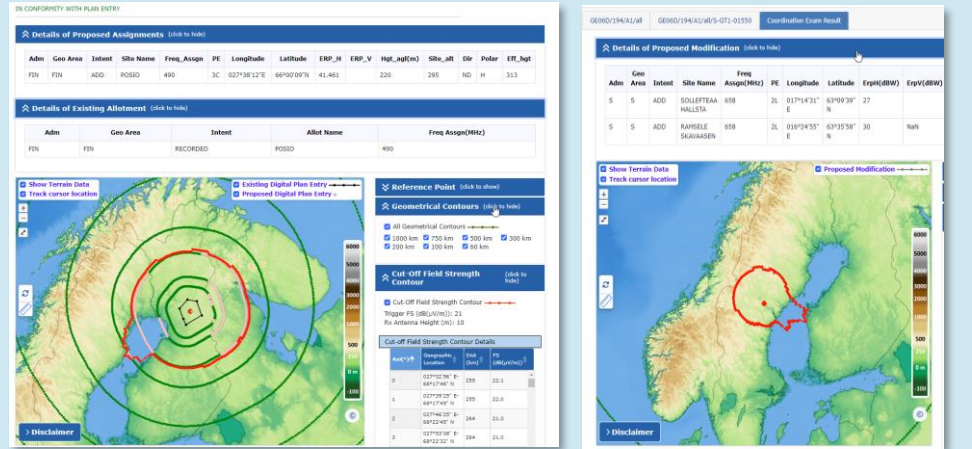
Assign ID	Adm	Intent	Str Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance (km)	Cold Sea Path (km)	Warm Sea Path (km)	Super refra Path
7763	GAB	ADD	BC	95.6	V	MAKONGOGNO	158	0	0	0
7870	GAB	ADD	BC	95.6	V	MABANDA	83	0	0	0
7886	GAB	ADD	BC	95.6	V	MALINGA	124	0	0	0
4370	COD	ADD	BC	95.6	H	MOANDA	288	0	45	0
5522	COG	ADD	BC	95.5	H	SIBITI	168	0	0	0



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

Plan modification (coordination/conformity exam)

eTools Simulation integrating
TerRaSys software since 2023



Details of Proposed Assignments

Adm	Geo Area	Intent	Site Name	Freq_Assgn	PE	Longitude	Latitude	ERP_M	ERP_V	Hgt_Hgt(m)	Site_Alt	Dip	Polar	FE_Mpt
FIN	FIN	ADD	POSSO	490	3C	027°38'12"E	66°30'30"N	41.465	220	265	ND	H		31.3

Details of Existing Allotment

Adm	Geo Area	Intent	Site Name	Freq_Assgn(MHz)
FIN	FIN	RECORDED	POSSO	490

Details of Proposed Modification

Geo Area	Intent	Site Name	Freq_Assgn(MHz)	PE	Longitude	Latitude	Erp(M)	Erp(VdBW)	Erp(VdBW)	
S	S	ADD	SOLLETTA	658	2L	017°14'31"E	63°08'39"N	27		
S	S	ADD	HALLSTA		E	018°14'55"E	63°15'38"N	30		NAH

Compatibility analyses

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

Instrumental in planning activities in regional organizations

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.

ATU (2012-2013)

ASMG (2014-2015)

More during GE06 workshop!

[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

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)

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

Select the proposed modification: | Select the affected protected station:

Result: sw_50%_A sw_BC gw_D gw_N

Showing 1 to 3 of 3 entries Show entries 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	

Following CITELE requests (2014-2015)

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

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	<u>MEX_76840_IN.txt</u>	4

Job Output

[Download results](#)

MS Access mdb file to be visualized with CA Display

Central America and Caribbean Multilateral Agreement

- 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](#)

"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.

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	NCG	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

340 focal points TIES account from **116 administration**

Latest Special Sections and Output correspondence



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

Adm (ITU) **2(1)** MailBox GE06D **R(1)** GE84 ST61 RJ81 GE75 MIFR CAC List

[No Title]

Latest Special Sections annex to the latest BR IFIC (3034) on date 12 Nov 2024

Your proposed plan modifications published

Plan	Special Section	PubPart	Number of Notices
GE84	344	A	1
GE84	344	B	7

Plan modifications affecting your administration published

Plan	Special Section	PubPart	Number of Notices
GE84	344	A	13

BR Outgoing Correspondence

ALL ALL SS

Showing 1 to 25 of 291 entries Show entries

Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE06	223	Publication of Special Section	29 Oct 2024	12 Jan 2025	31B(BCD)O-2024-003231	61
GE06	221	Publication of Special Section	3 Sep 2024	17 Nov 2024	31B(BCD)O-2024-002857	5
GE84	341	Publication of Special Section	20 Aug 2024	9 Oct 2024	21E(BCD)O-2024-002657	expired
GE06	220	Publication of Special Section	6 Aug 2024	20 Oct 2024	31B(BCD)O-2024-002343	expired
GE06	219	Publication of Special Section	9 Jul 2024	22 Sep 2024	31B(BCD)O-2024-002222	expired

BR Incoming Correspondence: GE84 comments received/sent

Replacing manual forwarding to GE84 comments correspondence (during the coordination period) with an automated system!



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



Adm (ITU)	MailBox	GE06D	RC(1) RC(4) GE84	ST61	GE75	MIFR	[No Title]
	BR Incoming Correspondence: GE84 comments received						
Sender Adm	Date Letter	Document					
MKD	26 Sep 2024	31E(BCD)I-2024-028779					
RUS	10 Oct 2024	31E(BCD)I-2024-030234					
MDA	24 Oct 2024	31E(BCD)I-2024-031561					
HNG	29 Oct 2024	31E(BCD)I-2024-031889					
GRC	30 Oct 2024	31E(BCD)I-2024-032003					
BR Incoming Correspondence: GE84 comments sent							
Date Letter	Document	Receiving Administration					
25 Oct 2024	31E(BCD)I-2024-031632	GRC UKR					



Plans and MIFR dashboard

Adm (ITU)	3(2) MailBox	D(56) 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

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 TB3 Generate e-notices (Export to SGML) Print

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

RR 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	HONTBARD	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	HONTBARD	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	HONTBARD	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 CZE D HOL 1 LIE LUX MCO SUI		AUT BEL CZE D HOL 1 LIE LUX MCO SUI
122063087	F	SENE	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	SENE	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	SENE	101	ADD	316	17 Nov 2022	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122052820	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		AUT CVA D E 1 LIE MCO SMR SUI		AND AUT CVA D E 1 LIE MCO SMR SUI
121124520	F	S ROSE	87.6	ADD	310			MAU	MAU
121124520	F	COTTI CHIAVARI	93.5	MODIFY	309		CVA E HRV 1 SMR SUI TUN	MCO	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
122000002	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 TB3** Print

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

RR 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

Plans and MIFR dashboard



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



Adm (ITU)

MailBox

RJ81

MIFR

CAC List

Notices in CAC List

[21](#)

Notices in CAC List implemented in MIFR

[3](#)



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)

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

Dear Madam/Sir

The Radiocommunication Bureau in
have just been entered in the databa



Wed 11/23/2016 4:46 AM

eBCD, ITU



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 GE06

assgn_id	pub_no	adm	siteOrA
116113557	119	FIN	ESPOO
116113558	119	FIN	ESPOO
116150059	122	FIN	MIKKE

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

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	31B(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-2022-003383	expired
GE84	314	70 days reminder	24 Aug 2022	22 Sep 2022	31E(BCD)O-2022-003244	expired
GE06	193	50 days reminder	18 Aug 2022	11 Sep 2022	31B(BCD)O-2022-003210	expired

ITU-R P series calculations for terrestrial services

➤ Moved to eTerrestrial level

➤ New functionalities

- Integrated map display
- Improved graphics
- Included additional DEMs (ASTER GDEM v3 in addition to 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
- P.1546 MultiPoint to Point

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

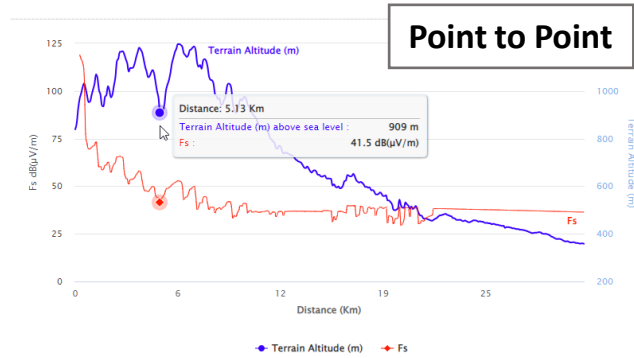
More during Propagation session!

Interference/coverage analyses!

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



Transmitter

Frequency(MHz): 186

Longitude(DMS): 45 00 00 E

Latitude(DMS): 41 10 00 N

ERP(dBW): 30

Ant. Height AGL(m): 70

Polarization: Horizontal

Submit Clear

Receiver

Longitude(DMS): 45 21 14 E

Latitude(DMS): 41 05 39 N

Ant. Height AGL(m): 10

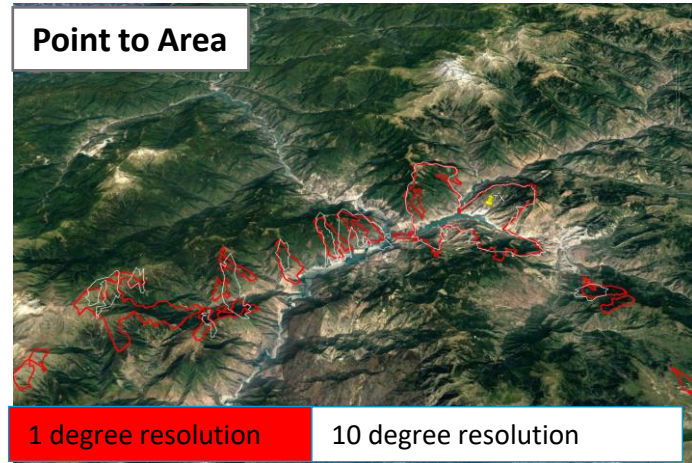
Environment

% of time: 1

% of location: 50

Reception type: Outdoor

DEM: SRTM3, ASTER_V3, SRTM1, SRTM3



More during Propagation session!

Point to Area

P.1546-6(08-19)

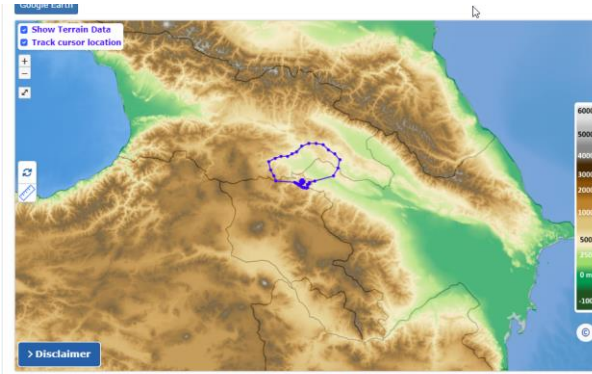
Propagation prediction (empirical model)

- 30 MHz - 4 GHz
- 1 km - 1000 km
- 1% < time < 50%
- 1% < locations < 99%
- TX eff hgt <= 3km

Point to Point and MultiPoint to Point

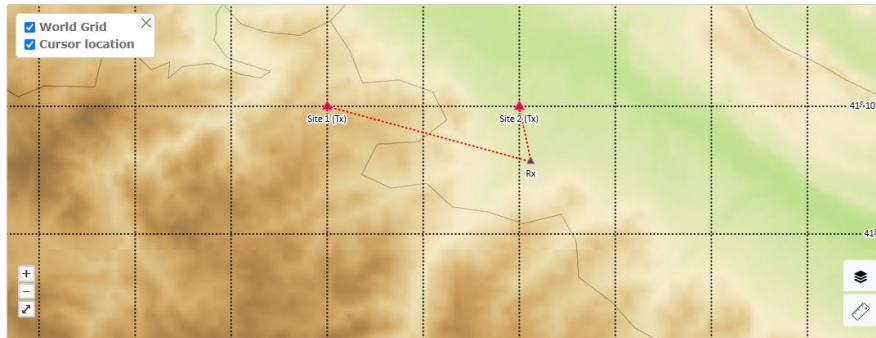
Job Input

Adm	Input Parameters
ARM	<input type="button" value="Use as Input"/> <input type="button" value="Display Input Parameters"/>



Job Output (click to hide)

Job Output



Power Sum (dB $\mu\text{V}/\text{m}$): 43.5

Site Name	Freq. (MHz)	Dist. (km)	Bearing(°)	FS (dB $\mu\text{V}/\text{m}$)
Site 1	186	30.7	105	6.8
Site 2	186	8.2	168	43.5



More during Propagation session!

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



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)

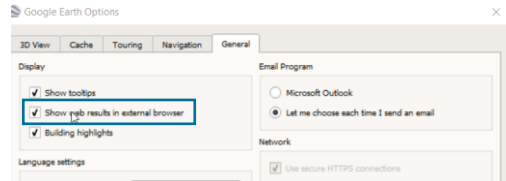
Export to Excel Export to PDF **Google Earth** Print

Showing 1 to 50 of 178 entries Show **50** 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

Please modify settings for appropriate navigation from Google Earth



FXM

FMTV

LFMF

Assigned Frequency (kHz)	357	Nature of Service
Reference (Carrier) Frequency		Frequency deviation (MHz)
Class of Emission	A3E--	Energy dispersal (kHz)
Bandwidth Code		

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
Gain Type
Maximum Power Density (dBW/kHz)

Receiving Station Information

RX1
Site Name
Geographic Area
Region

Site Characteristics

Transmitting Antenna Site Name
Geographic Area
.longitude
.latitude
Altitude
Altitude of site above sea level (m)

Emission Characteristics

Assigned Frequency (MHz)
Bandwidth (kHz)
Frequency Block
TV 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)

remarks (Administration)

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)			

Findings Information

- **Development of GE75 what-if studies and display detailed coordination results**
- **Development of more map-centric tools**

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 via the table and via the map
4. Visualize notice/assignment details
5. Export the information to Excel

Exercise n. 2: ePub

1. Consult data concerning Special Sections of a plan of your choice
 - Browse affected/notifying administrations
 - Browse through summary information via the table and via the map
 - Visualize 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 P2P, MP2P or 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.

Exercise n. 4: myAdmin

Focal point only

- 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).

Thank you!

ITU – Radiocommunication Bureau

Questions to brbcd@itu.int