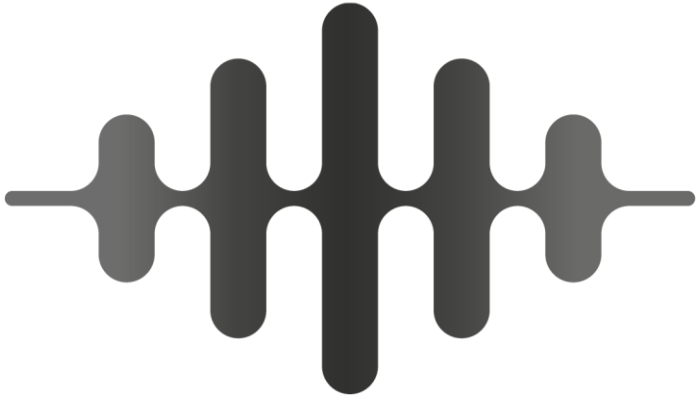


ITUWRS GENEVA2024

2–6 December 2024
Geneva, Switzerland

ITU World Radiocommunication Seminar

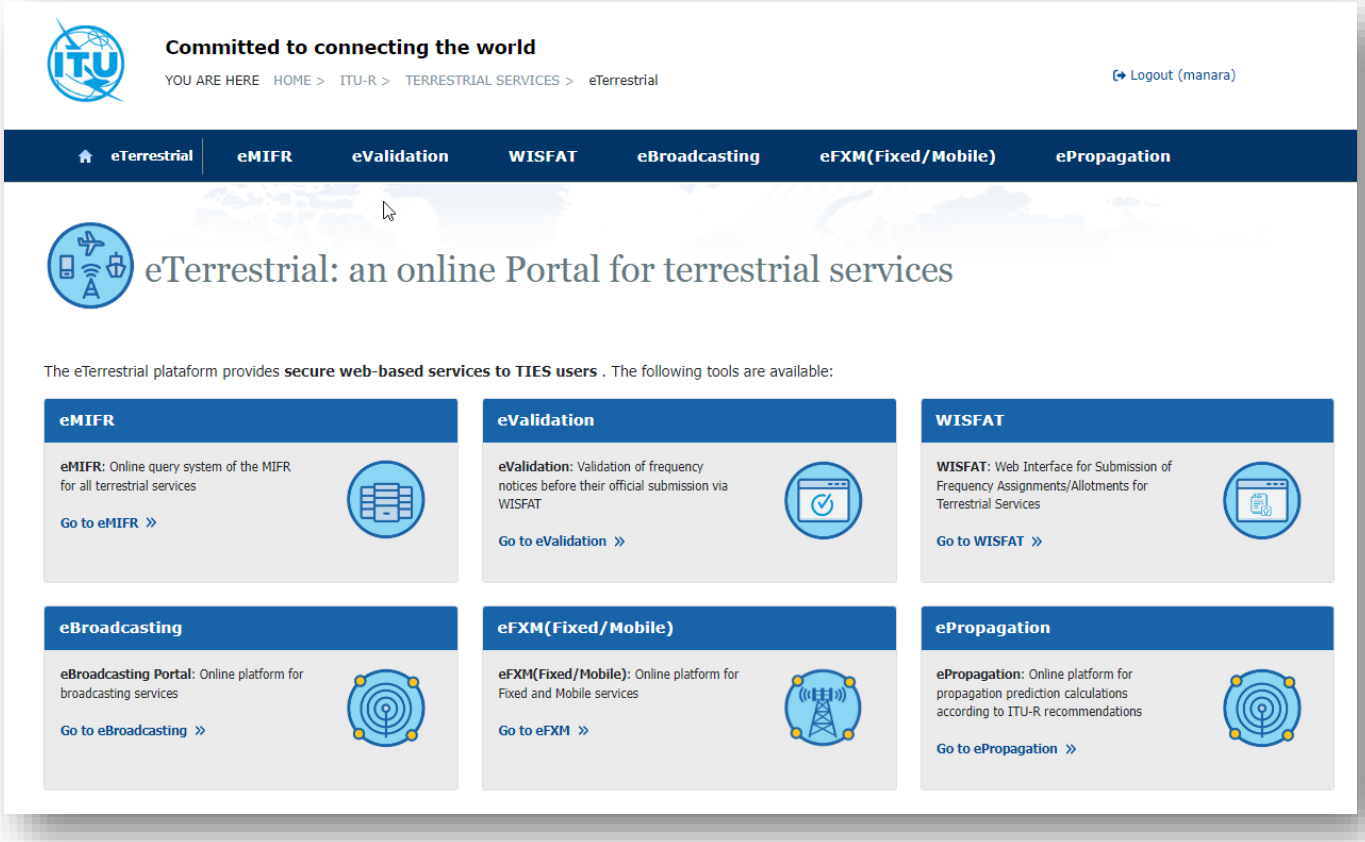
e-Terrestrial platform

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



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
- 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

eBroadcasting: Online Platform for Broadcasting Services

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

Objectives

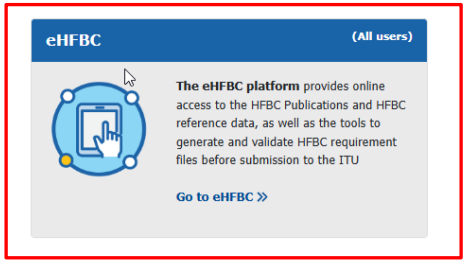
Bring the BR closer to Administrations with added-value services

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

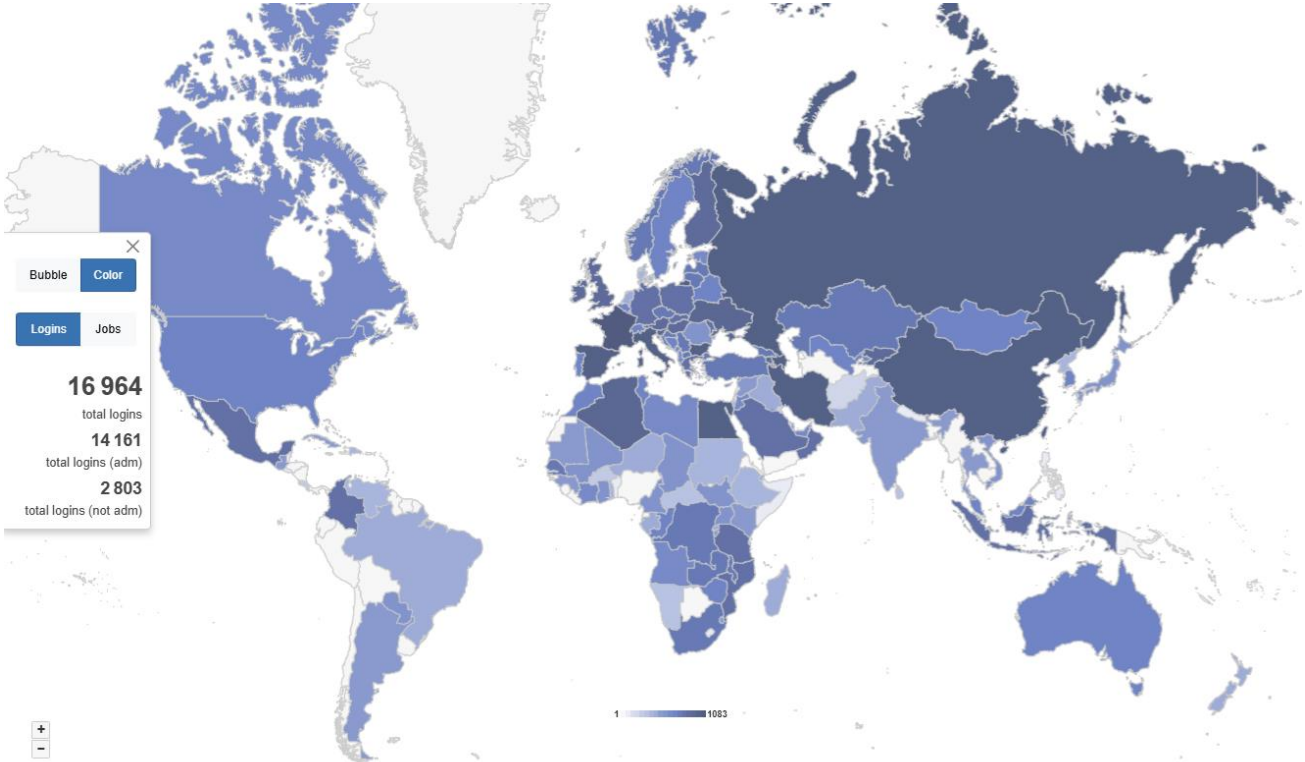
Outcome

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

Output

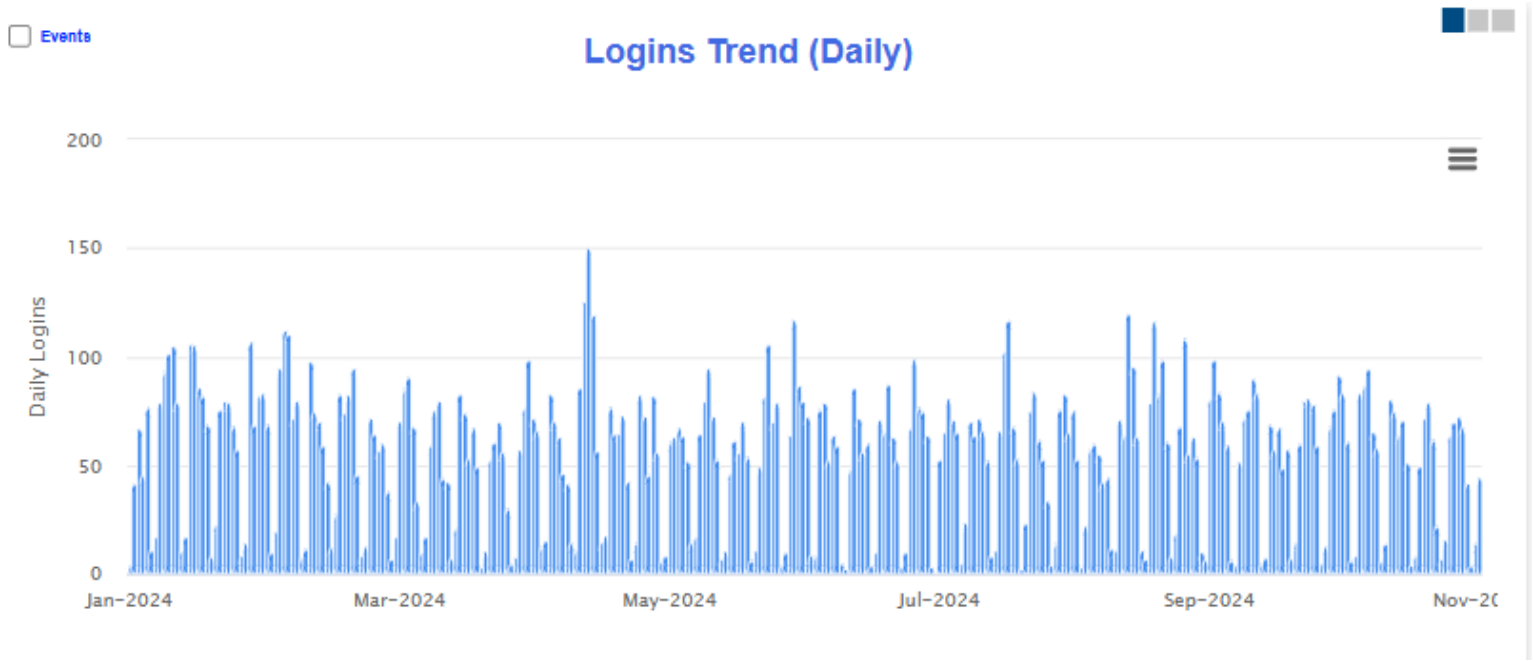


eBroadcasting: Online Platform for Broadcasting Services



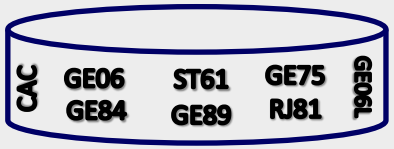
2024 statistics

eBroadcasting: Online Platform for Broadcasting Services



"Online search on Plans"

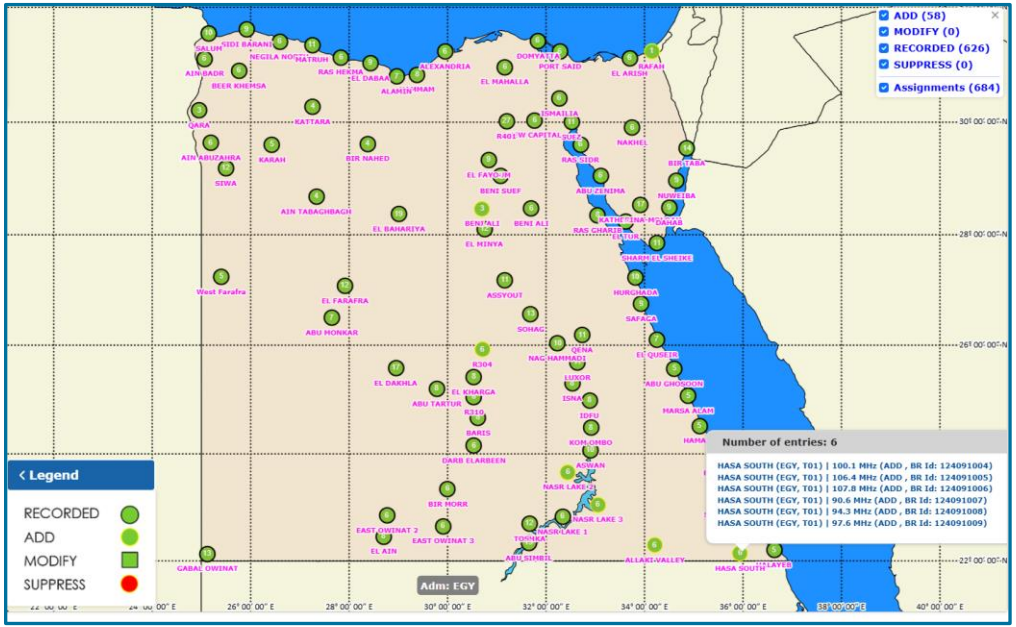
https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/eQuery



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



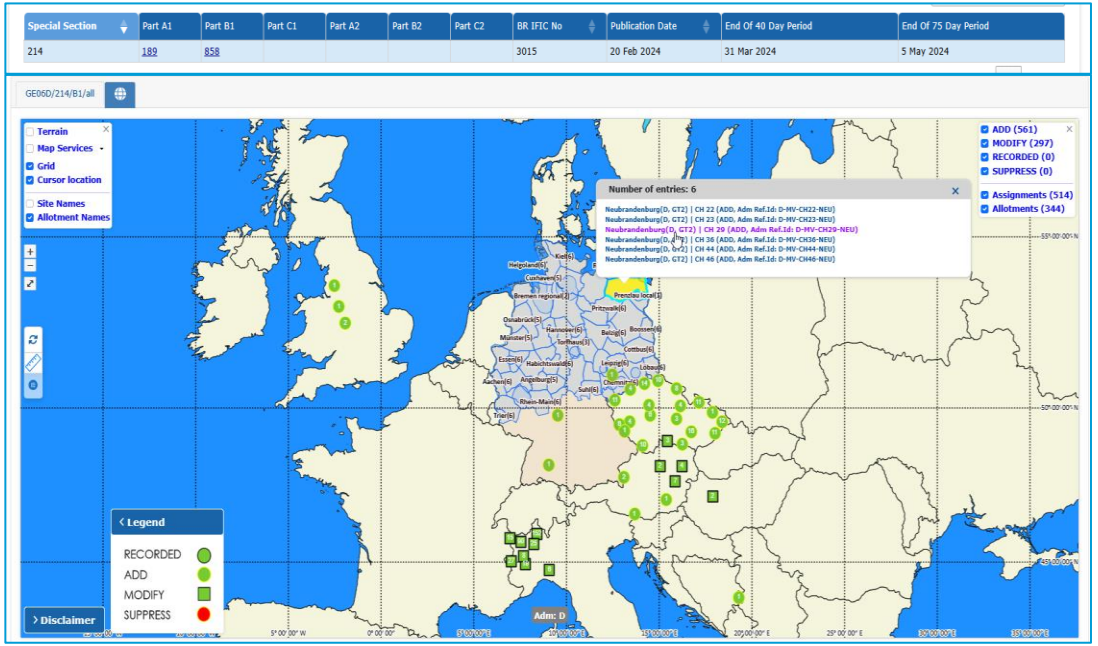
"Special Sections, the publication day!"

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

Database Snapshots (at publication date)

Search by:

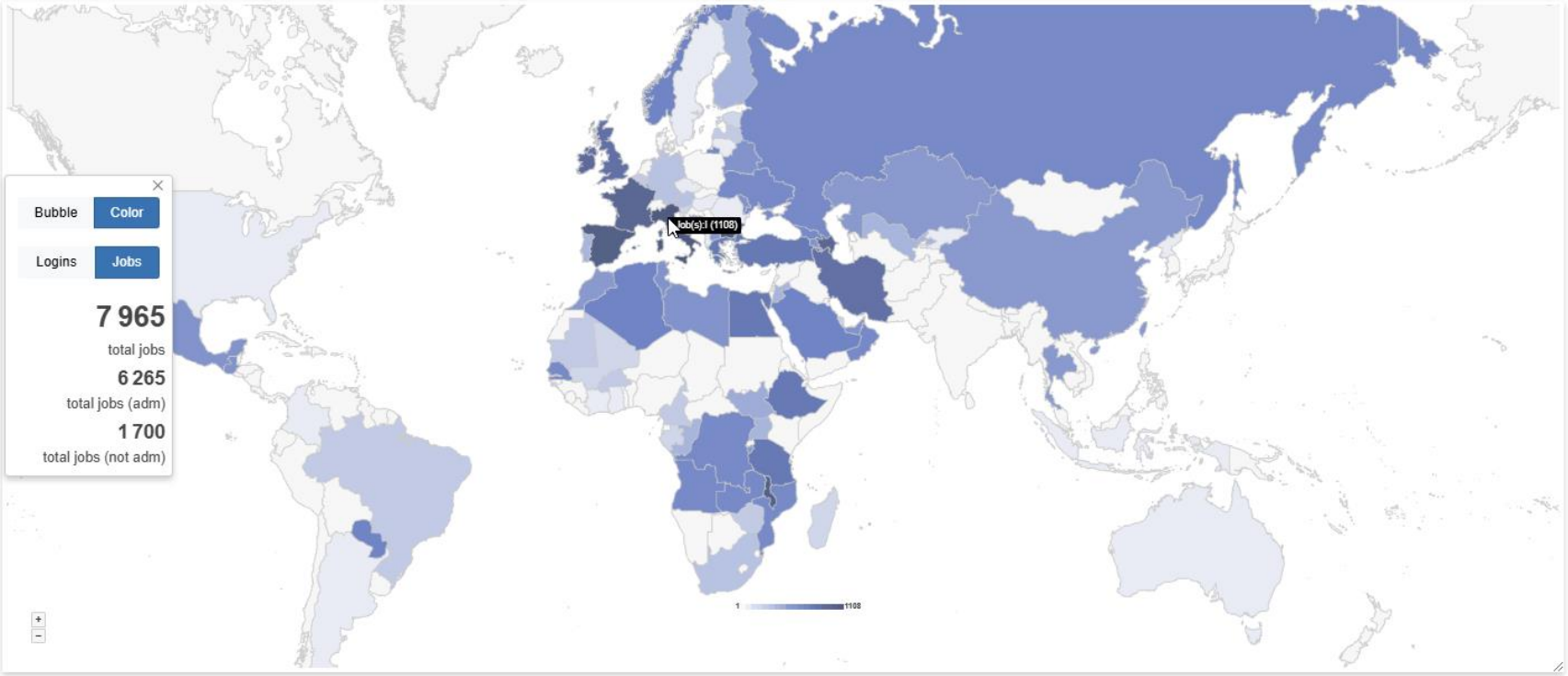
- BR IFIC number
- Administration
  - My notifications
  - Notifications which affects me



All Special Section for broadcasting plans since 2007

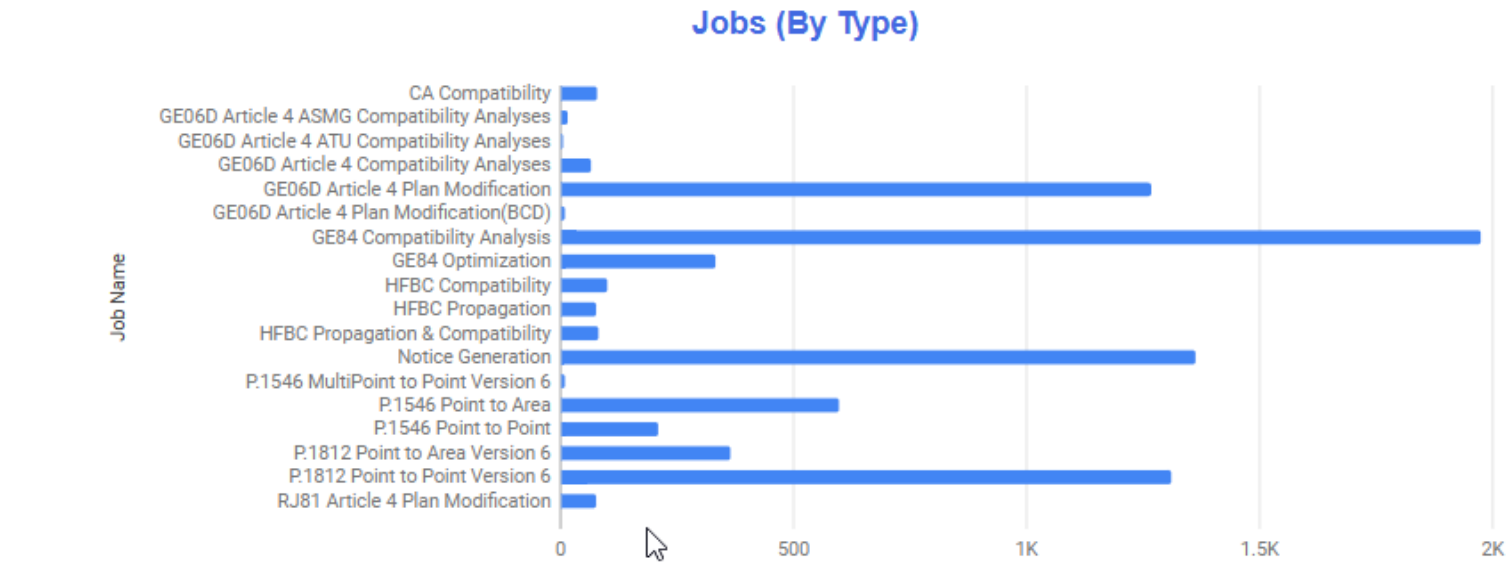
"On-demand test calculations"

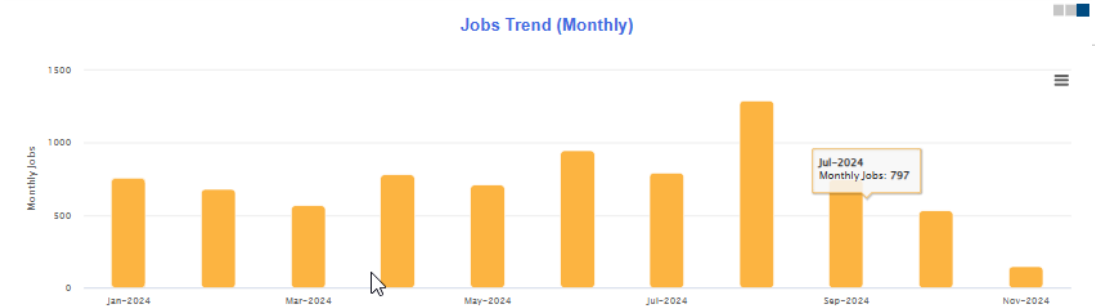
https://www.itu.int/ITU-R/eTerrestrial/eBroadcasting/eCalculations

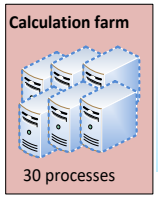


2024 statistics

"On-demand test calculations"







Back-end infrastructure

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

"On-demand test calculations"

e-notice submission

GE06, RJ81, CA Compatibility | **GE84, GE06 Art.4 (TerRaSys)**

Validate e-notice files

Please use BR dedicated software tools for validations!

Upload e-notices

Multiple files from different administrations.

Complete submission

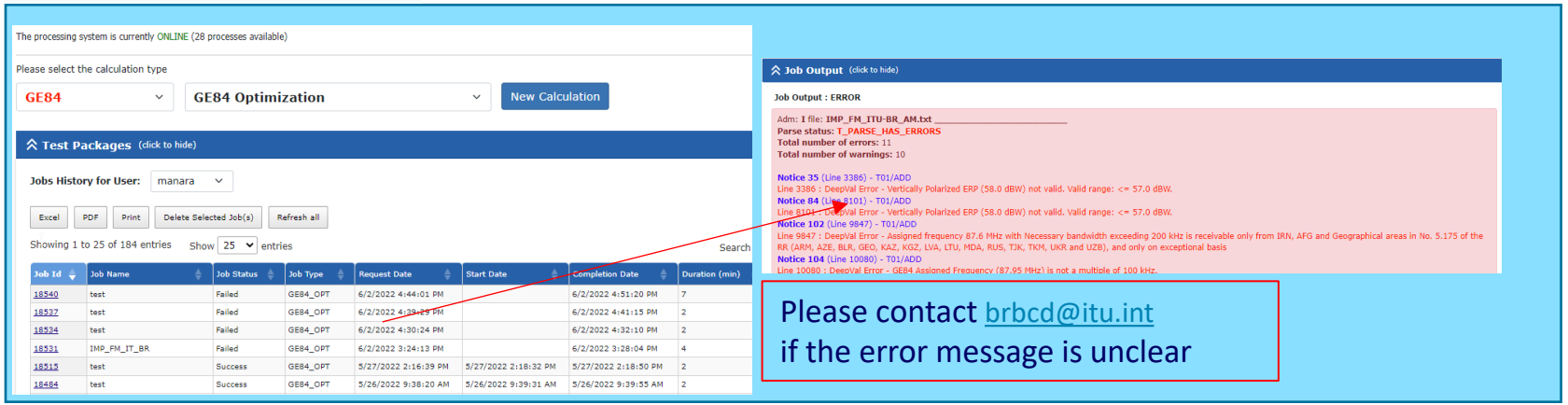
The Online Validation (reuse TerRaNotices software in a SOA architecture) was integrated for GE84 and GE06 (TerRaSys) calculation. Integration planned also for GE06, RJ81 and the CA compatibility software

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

Check your E-mail account!

Job processing, privacy and collaboration

Job processing



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	Mailysai 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:

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

GE84 Optimization Description

Instrumental in planning activities in ATU (2020-2022)

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**

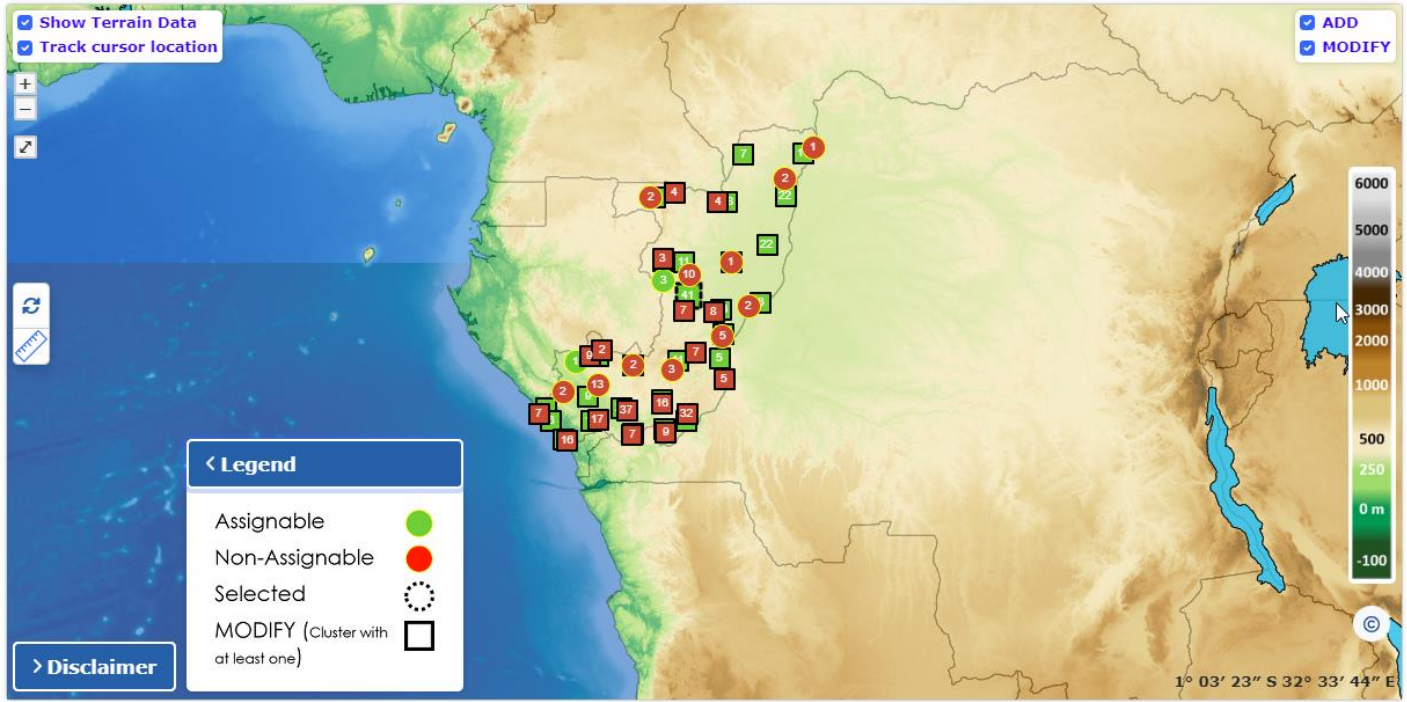
Frequency (MHz)	Top five interferers														
	Assign ID	Adm.	Intent	Class	Freq.	Pol.	Site Name	Dist.	Cold Sea	Warm Sea	Sup. Refr.	ERP	Azim.	Prot. Ratio	NFS	Coord.
FLEX	66	AFS	ADD	BC	FLEX	H	AUGRABIES	73	0	0	0	47	310.9	45	101.16	---
	70	AFS	ADD	BC	FLEX	H	NOENIEPUT	76	0	0	0	47	216.8	45	97.01	---
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

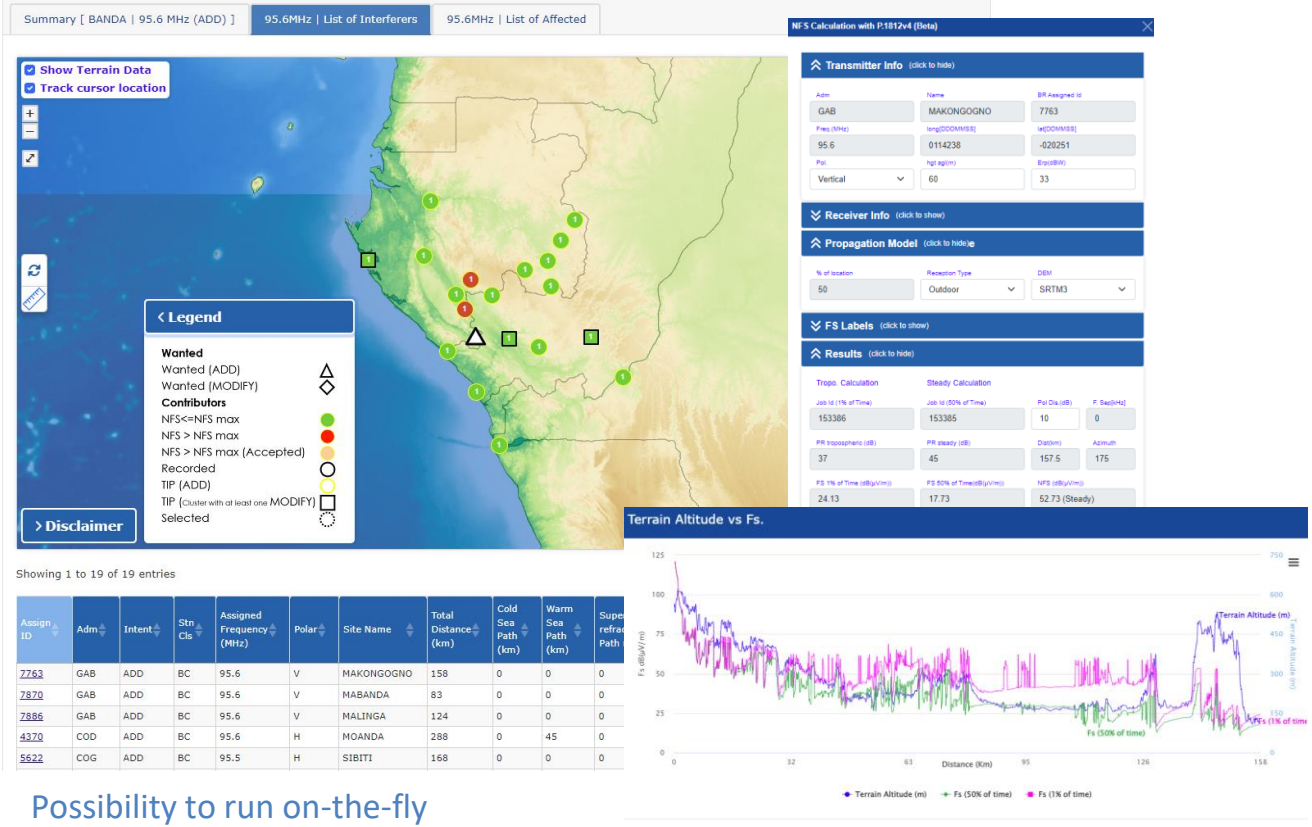
Excel

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	---

More during GE84 workshop!

Adm	Submitted	Assignable	Non Assignable
COG	606	373	233



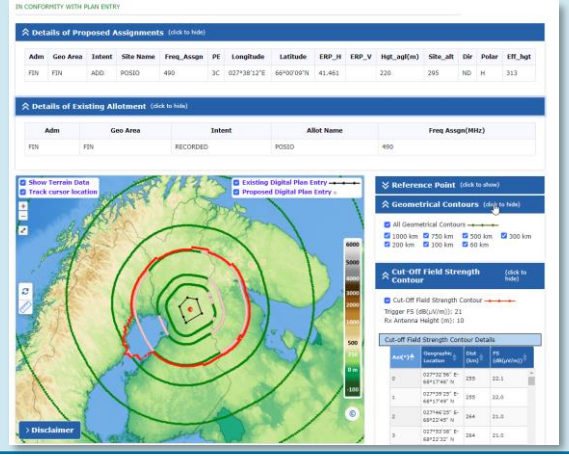


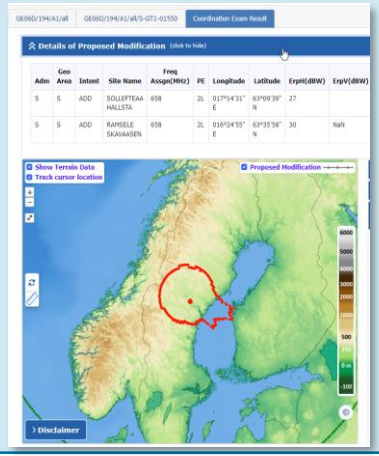
Assign ID	Adm	Intent	Stn Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance (km)	Cold Sea Path (km)	Warm Sea Path (km)
7763	GAB	ADD	BC	95.6	V	MAKONGOGNO	158	0	0
7870	GAB	ADD	BC	95.6	V	MABANDA	83	0	0
7886	GAB	ADD	BC	95.6	V	MALINGA	124	0	0
4370	COD	ADD	BC	95.6	H	MOANDA	288	0	45
5622	COG	ADD	BC	95.5	H	SIBITI	168	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

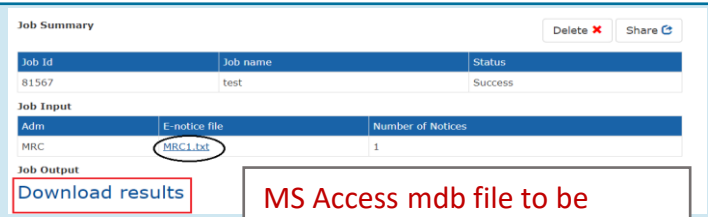




Compatibility analyses

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

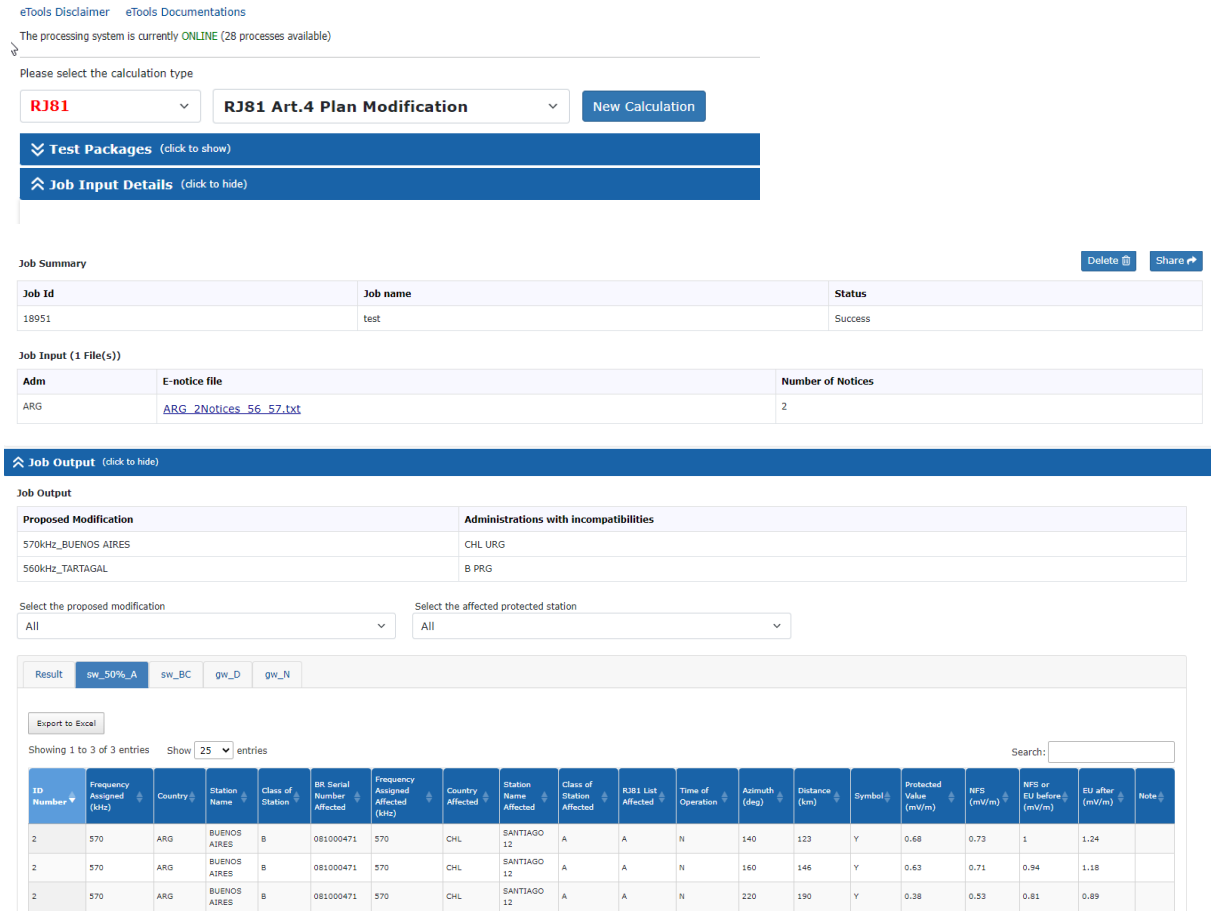
Instrumental in planning activities in regional organizations



MS Access mdb file to be visualized with GE06Calc.

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

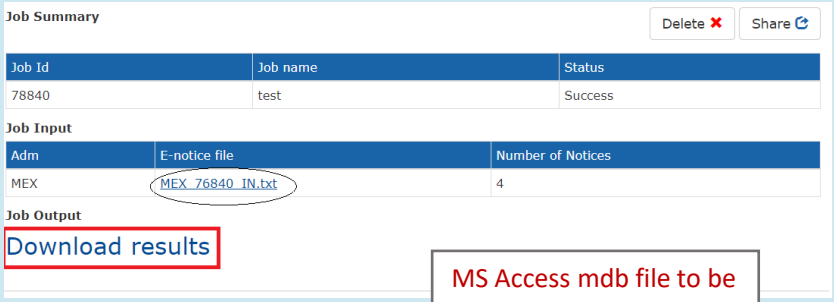
More during GE06 workshop!



Following CITEL 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**



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**

MailBox

Latest Special Sections and Output correspondence

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

Adm (ITU) | MailBox 2( ) | GE06D | GE84 R(1) | 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 25 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-2024-003591	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	31E(BCD)O-2024-002657	expired
GE06	220	Publication of Special Section	6 Aug 2024	20 Oct 2024	31B(BCD)O-2024-002543	expired
GE06	219	Publication of Special Section	9 Jul 2024	22 Sep 2024	31B(BCD)O-2024-002222	expired

MailBox

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)

NEW

Adm (ITU) | MailBox | GE06D | GE84 R(1) D(4) | 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

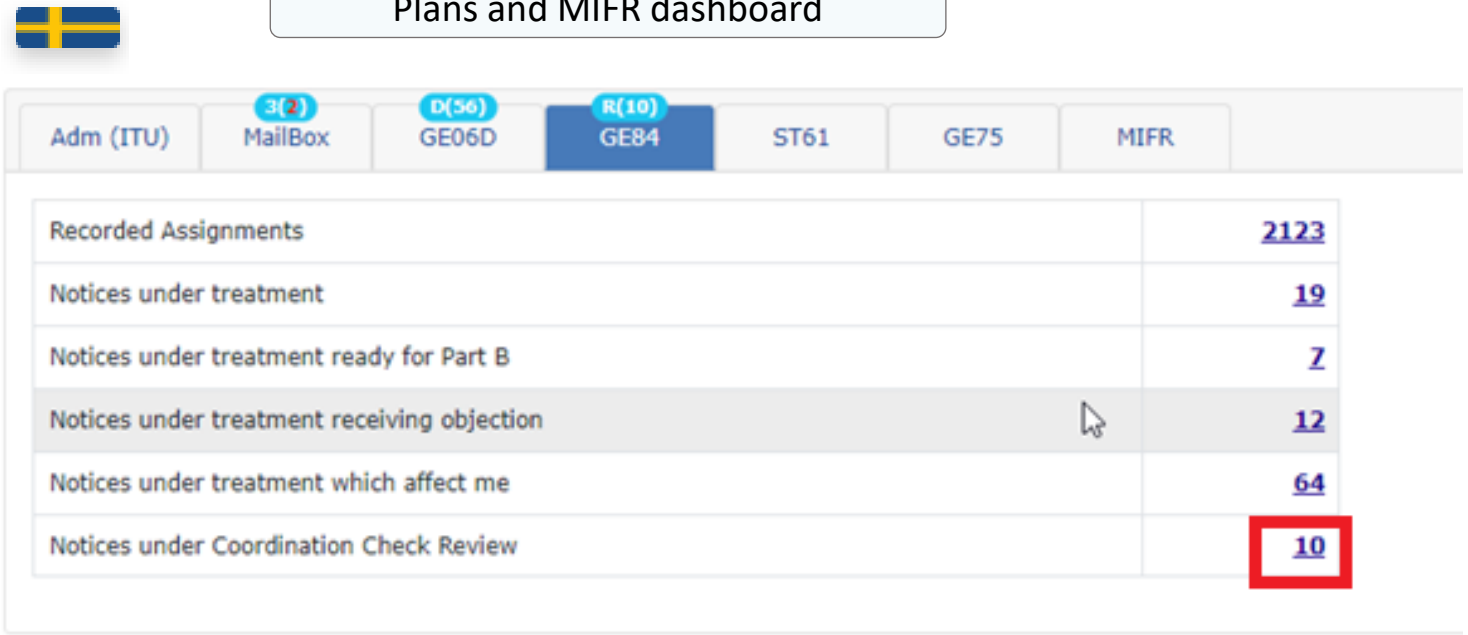
Date Letter	Document	Receiving Administration
25 Oct 2024	31E(BCD)I-2024-031632	GRC UKR

Plans and MIFR dashboard

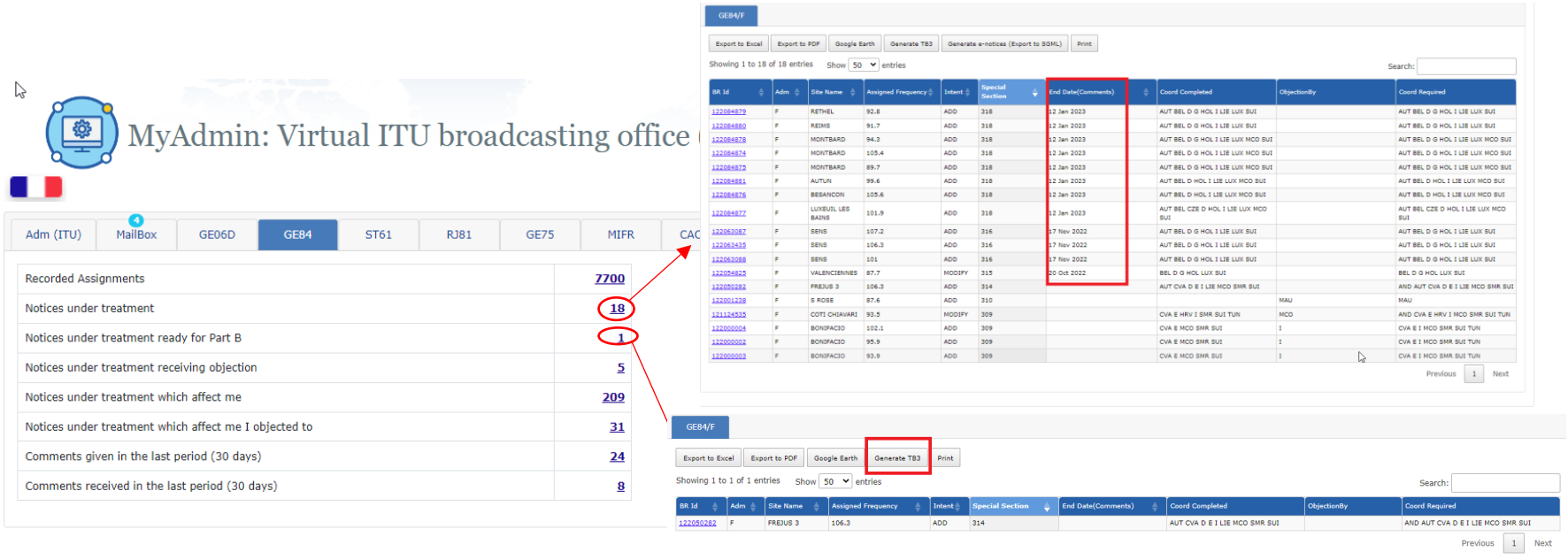
Adm (ITU) | MailBox 3(2) | GE06D D(56) | GE84 R(10) | ST61 | GE75 | MIFR

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



Plans and MIFR dashboard



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

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

Every Sunday 4.00 a.m.

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

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

Dear Madam/Sir

The Radiocommunication Bureau in
have just been entered in the databa

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

EI 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 | Mon 10/10/2022 4:25 AM

Dear Madam/Sir

On date Thursday, September 22, 2022 the Bure

The Bureau has also later informed you via e-mai

The Bureau wishes to inform you that the limit

Important: Please do not reply to this email

For any further clarification or additional informa

Adm (ITU) | MailBox 5(3) | 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 25 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-2022-003767	43
GE84	316	50 days reminder	29 Sep 2022	9 Oct 2022	31E(BCD)O-2022-003692	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-2022-003563	54
GE84	317	Publication of Special Section	6 Sep 2022	26 Oct 2022	31E(BCD)O-2022-003419	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

https://www.itu.int/ITU-R/eTerrestrial/ePropagation

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!

Rec. ITU-R P.1812 vs P.1546

Recommendation ITU-R P.1812-6 (09/2021) A path-specific propagation prediction method for point-to-area terrestrial services in the frequency range 30 MHz to 6 000 MHz	Recommendation ITU-R P.1546-6 (08/2019) Method for point-to-area predictions for terrestrial services in the frequency range 30 MHz to 4 000 MHz
Deterministic model model all the physical phenomena which plays a role in VHF-UHF band **Path specific** Uses terrain profile (elevation above mean sea level).	**Empirical model** based on extensive field measurements and statistical analysis **Path general** The effect of terrain only via: • Effective antenna height • Clearance Angle correction • Tropospheric scattering correction
➢ 30 MHz - 6 GHz ➢ 0.25 km - 3000 km ➢ 1% < time < 50% ➢ 1% < locations < 99% ➢ Rx and Tx hgt agl <= 3km	➢ 30 MHz - 4 GHz ➢ 1 km - 1000 km ➢ 1% < time < 50% ➢ 1% < locations < 99% ➢ Rx and Tx hgt agl <= 3km

More during Propagation session!

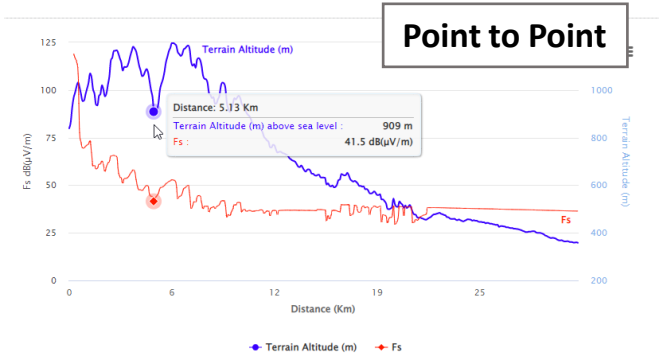
Interference/coverage analyses!

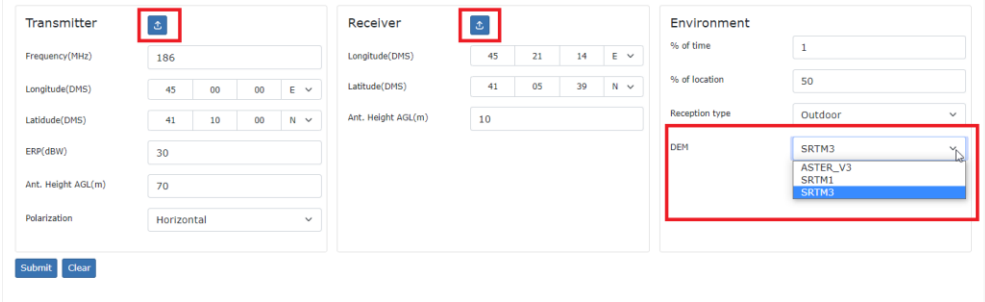
P.1812-6(09-21)

Propagation prediction using terrain profile (deterministic model)

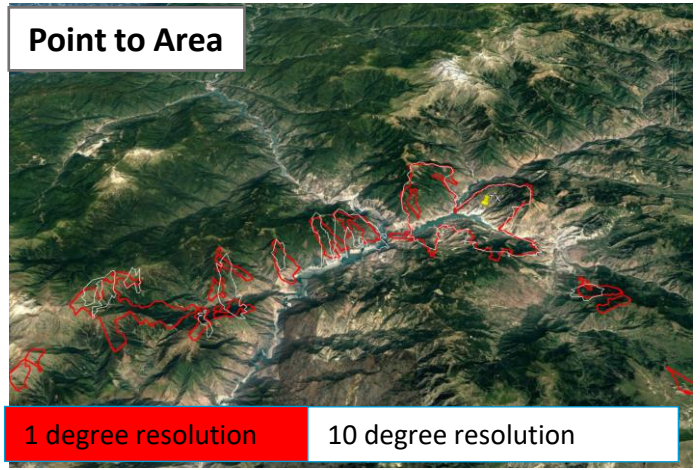
- 30 MHz - 6 GHz
- 0.25 km - 3000 km
- 1% < time < 50%
- 1% < locations < 99%
- Rx and Tx hgt agl <= 3km

Point to Point





Point to Area



1 degree resolution | 10 degree resolution

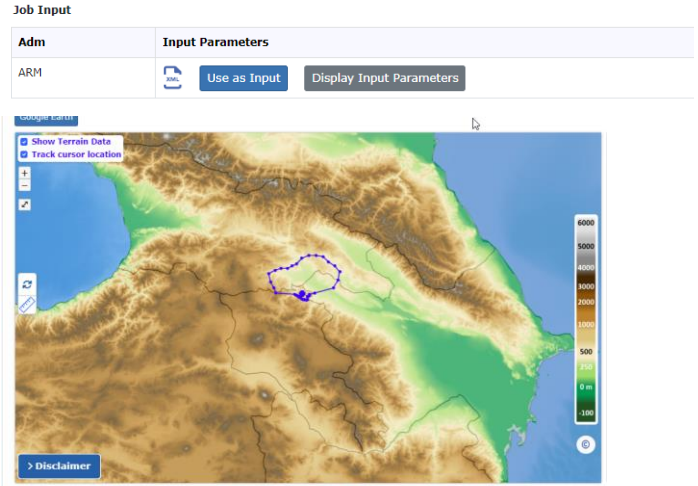
More during Propagation session!

P.1546-6(08-19)

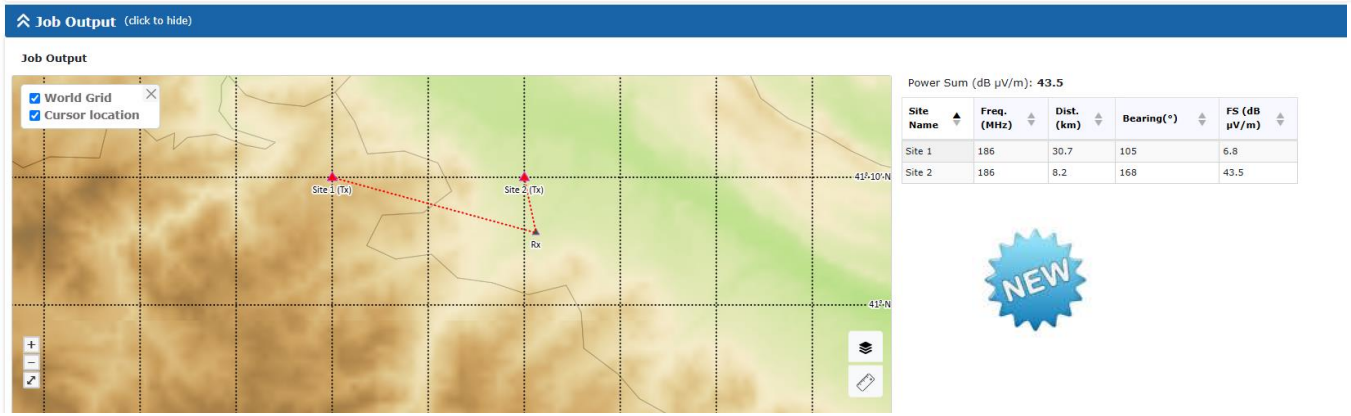
Propagation prediction (empirical model)

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

Point to Area

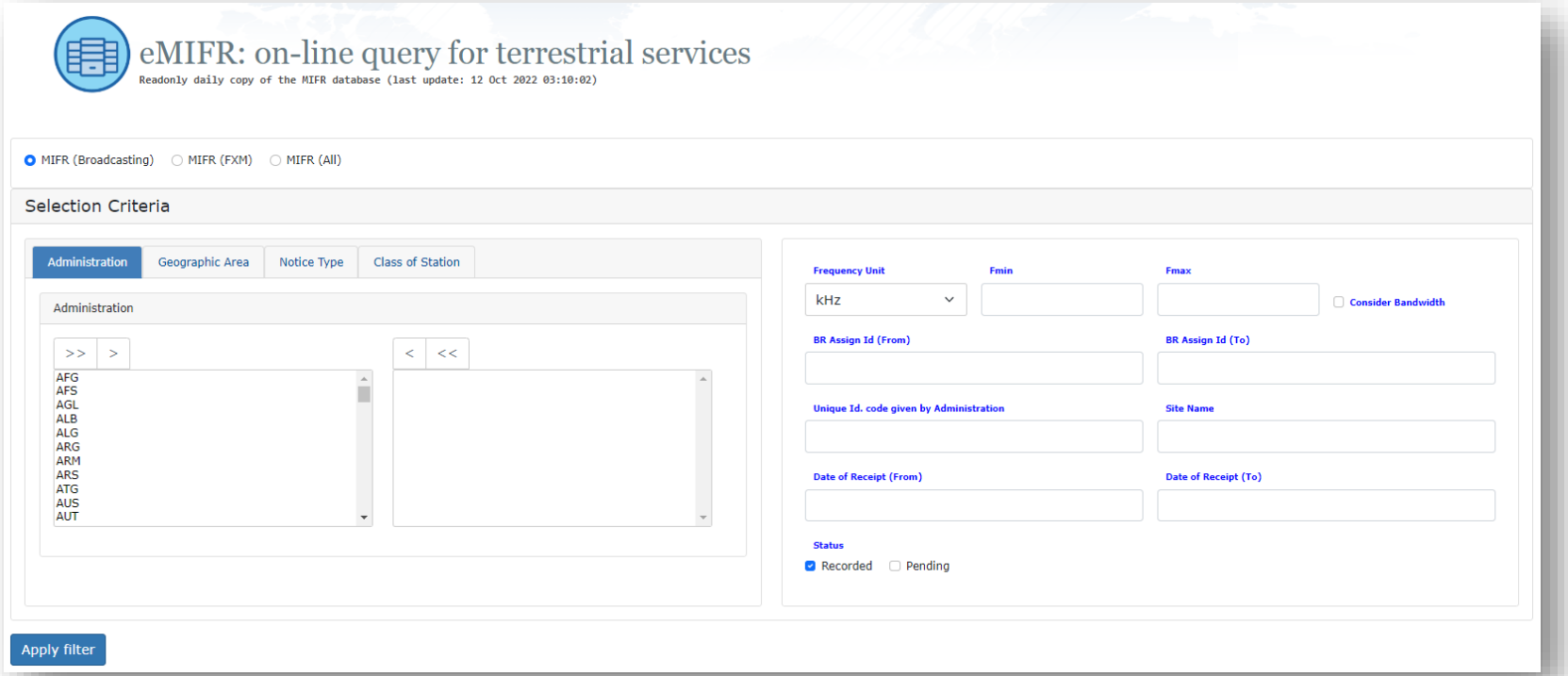


Point to Point and MultiPoint to Point



More during Propagation session!

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



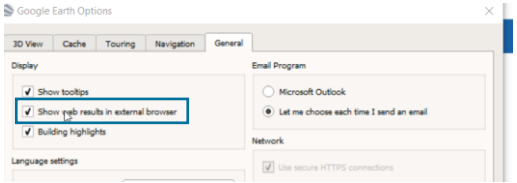
MIFR (Broadcasting)

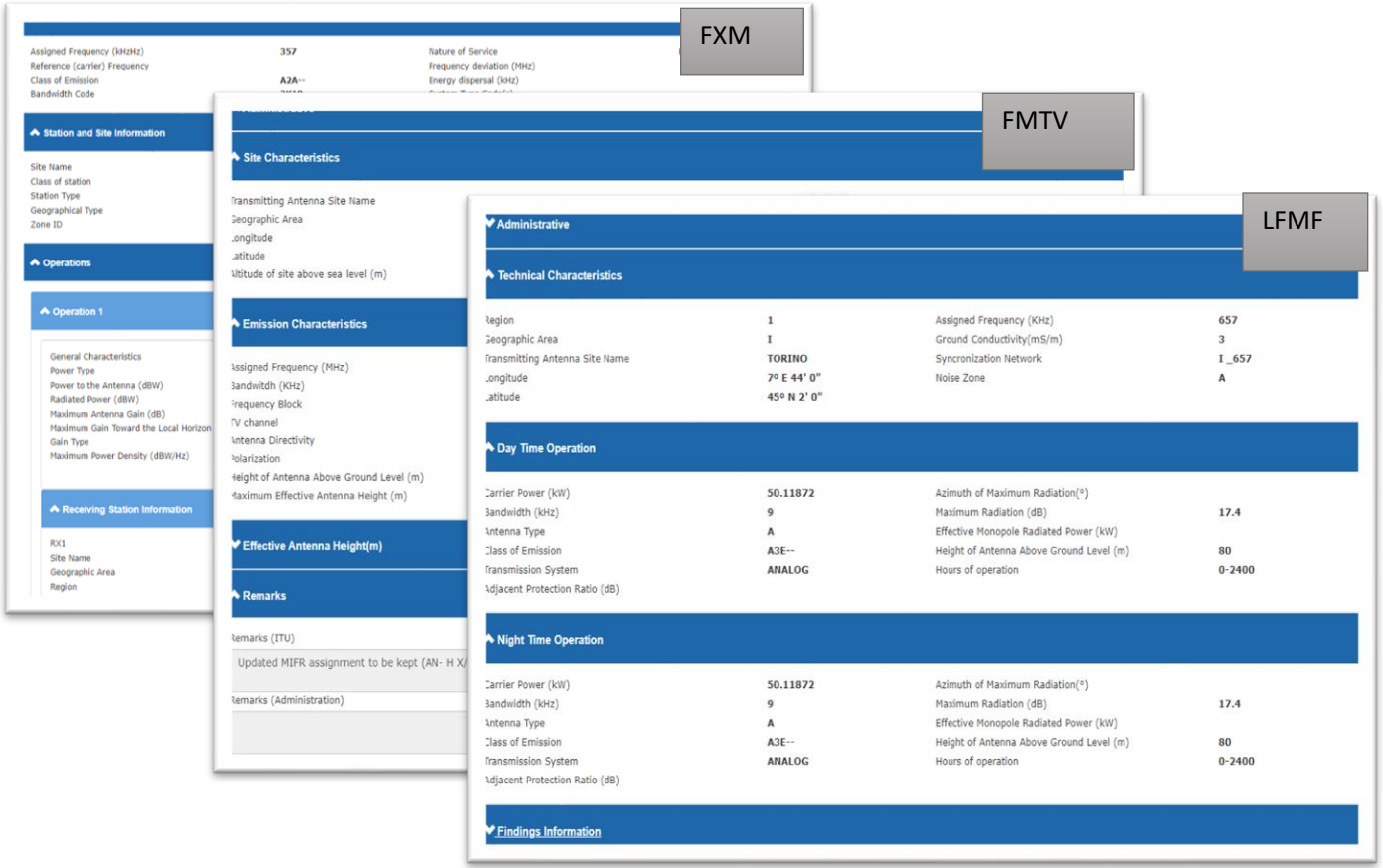
Export to Excel | Export to PDF | Google Earth | Print

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
Assigned Frequency (kHzHz)
357
Nature of Service
Reference (carrier) Frequency
Frequency deviation (MHz)
Class of Emission
A2A--
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/Hz)
Receiving Station Information
RX1
Site Name
Geographic Area
Region
FMTV
Site Characteristics
ransmitting Antenna Site Name
eographic Area
ongitude
atitude
ltitude of site above sea level (m)
Emission Characteristics
ssigned Frequency (MHz)
andwitdh (KHz)
requency Block
V channel
ntenna Directivity
olarization
eight of Antenna Above Ground Level (m)
aximum Effective Antenna Height (m)
Effective Antenna Height(m)
Remarks
emarks (ITU)
Updated MIFR assignment to be kept (AN- H X/
emarks (Administration)
LFMF
Administrative
Technical Characteristics
egion
1
Assigned Frequency (KHz)
657
eographic Area
I
Ground Conductivity(mS/m)
3
ransmitting Antenna Site Name
TORINO
Syncronization Network
I _657
ongitude
7º E 44' 0"
Noise Zone
A
atitude
45º N 2' 0"
Day Time Operation
arrier Power (kW)
50.11872
Azimuth of Maximum Radiation(°)
andwidth (kHz)
9
Maximum Radiation (dB)
17.4
ntenna Type
A
Effective Monopole Radiated Power (kW)
lass of Emission
A3E--
Height of Antenna Above Ground Level (m)
80
ransmission System
ANALOG
Hours of operation
0-2400
djacent Protection Ratio (dB)
Night Time Operation
arrier Power (kW)
50.11872
Azimuth of Maximum Radiation(°)
andwidth (kHz)
9
Maximum Radiation (dB)
17.4
ntenna Type
A
Effective Monopole Radiated Power (kW)
lass of Emission
A3E--
Height of Antenna Above Ground Level (m)
80
ransmission System
ANALOG
Hours of operation
0-2400
djacent 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