



30<sup>TH</sup> WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 octobre 2022

Genève, Suisse

# Plateforme e-Terrestrial

Outils en ligne pour les services terrestres

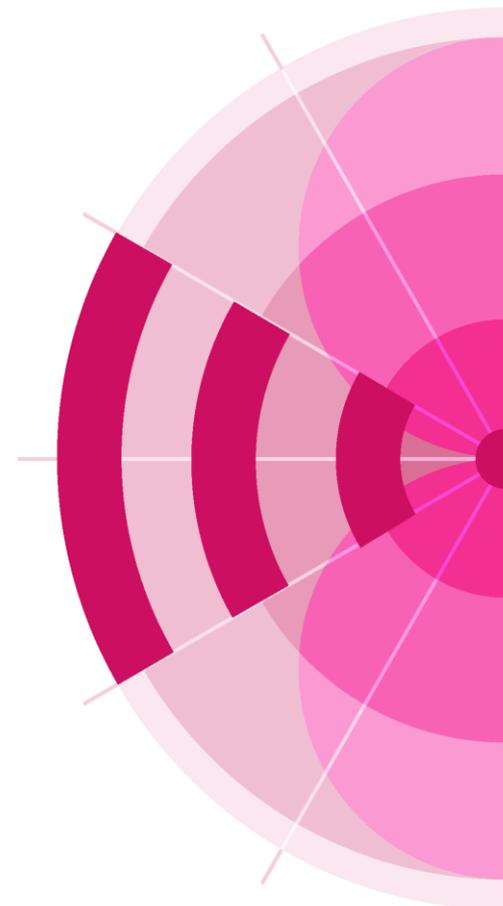
**Hakim Ebdelli**

Division des services de radiodiffusion

Bureau des Radiocommunications de l'UIT

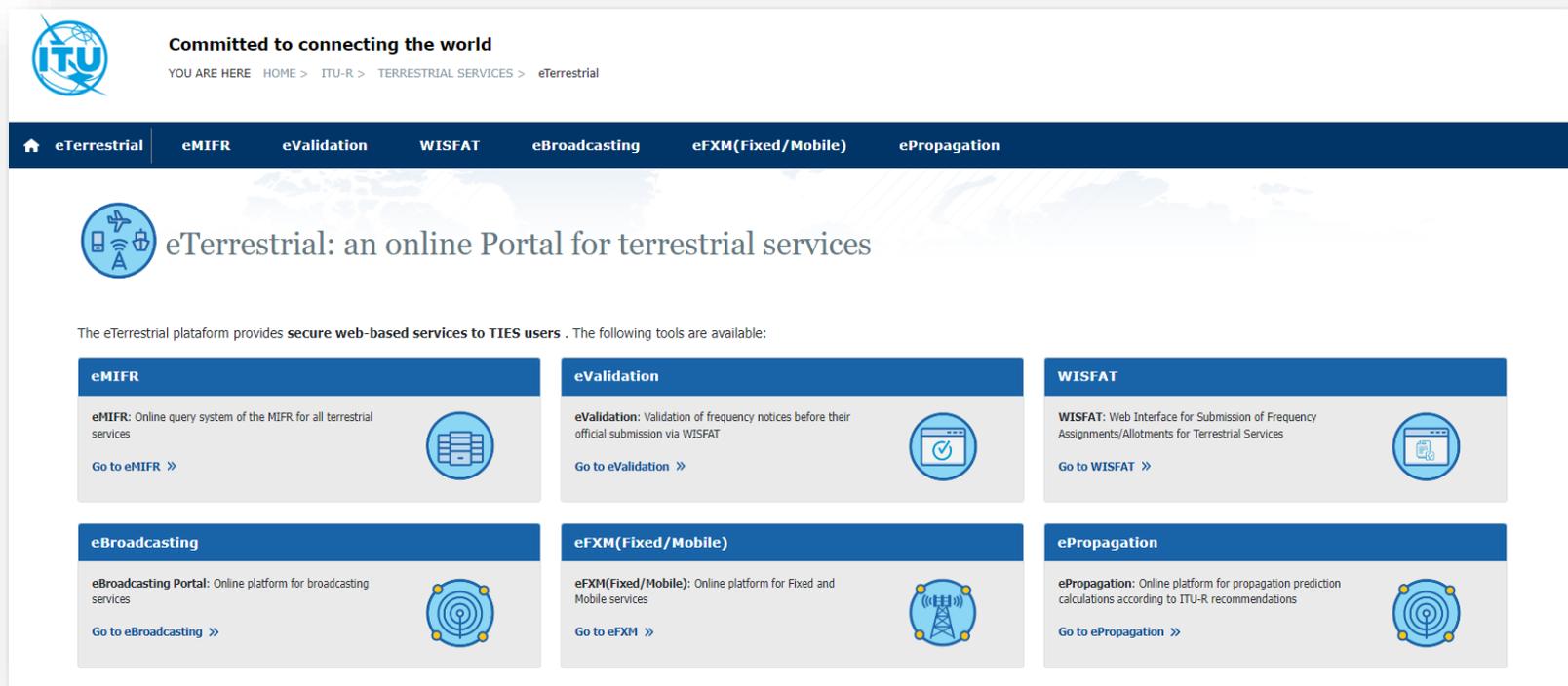
[www.itu.int/go/wrs-22](http://www.itu.int/go/wrs-22)

#ITUWRS



- **Plateforme eTerrestrial intégrée**
- **Plateforme eBroadcasting pour les services de radiodiffusion**
  - ❑ eQuery, ePub, eTools, myAdmin
- **eMIFR, ePropagation pour tous les services de terre**
- **Orientations futures**
- **Exercices**

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



The screenshot displays the ITU eTerrestrial website. At the top left is the ITU logo. The main header features the slogan "Committed to connecting the world" and a breadcrumb trail: "YOU ARE HERE HOME > ITU-R > TERRESTRIAL SERVICES > eTerrestrial". A dark blue navigation bar contains links for "eTerrestrial", "eMIFR", "eValidation", "WISFAT", "eBroadcasting", "eFXM(Fixed/Mobile)", and "ePropagation". Below this is a large banner with a world map background, featuring an icon of a mobile phone with a signal tower and the text "eTerrestrial: an online Portal for terrestrial services". A paragraph states: "The eTerrestrial platform provides secure web-based services to TIES users . The following tools are available:". Below this are six service cards arranged in a 2x3 grid. Each card has a blue header with the service name, a brief description, a "Go to" link with a right-pointing arrow, and a circular icon representing the service.

**ITU** Committed to connecting the world  
YOU ARE HERE HOME > ITU-R > TERRESTRIAL SERVICES > eTerrestrial

Home 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 >>

## Historique

- **2006: eBCD2.0 publié pour RRC06 eQuery/ePub GE06**
- **2007: eTools GE06 Art.4 Coordination/Conformité**
- **2008: myAdmin. Extension des outils à tous les plans de radiodiffusion**
- **2016: myAdmin limité aux Points Focaux**

## Nouvelle version pour WRS-22 !

- **Nouveaux outils eFXM**
  - **Réorganisation des outils: ePropagation**
  - **Nouvelles fonctionnalités**
    - Liste CAC
  - **Plus d'interactivité entre les cartes et les données tabulaires**
- **Dernières technologies**
  - **Design plus moderne et meilleure expérience utilisateur**
  - **Design réactif sur tous les appareils.**



## Objectifs

Rapprocher le BR des Administrations avec des services à valeur ajoutée:

- Données des services de radiodiffusion à jour
- Section spéciale à la date de publication
- Calculs à la demande
- Suivi facile des procédures de modification des plans et des délais associés

## Résultats

- Réduire la charge de travail du BR et des administrations
- Réduire le besoin de documents imprimés

## Output



**eQuery** (All TIES users) 

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

[Go to eQuery >>](#)

**ePub** (All TIES users) 

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

[Go to ePub >>](#)

**eTools** (All TIES users) 

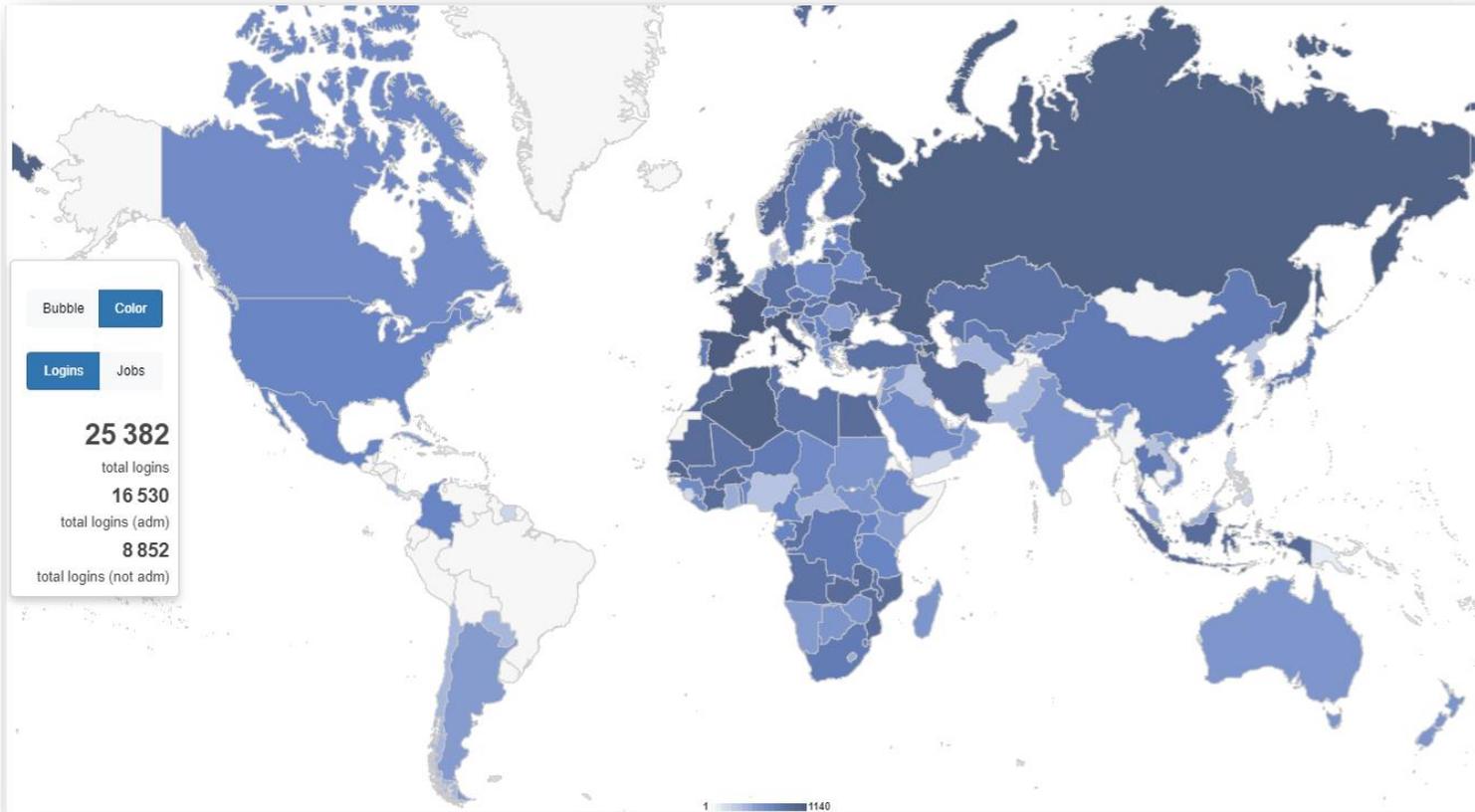
 eTools offers calculation on-demand in the scope of the GE06, GE04 and R381 agreements for testing purposes. It also allows propagation prediction calculations according to the recommendations ITU-R R1812 and R1546.

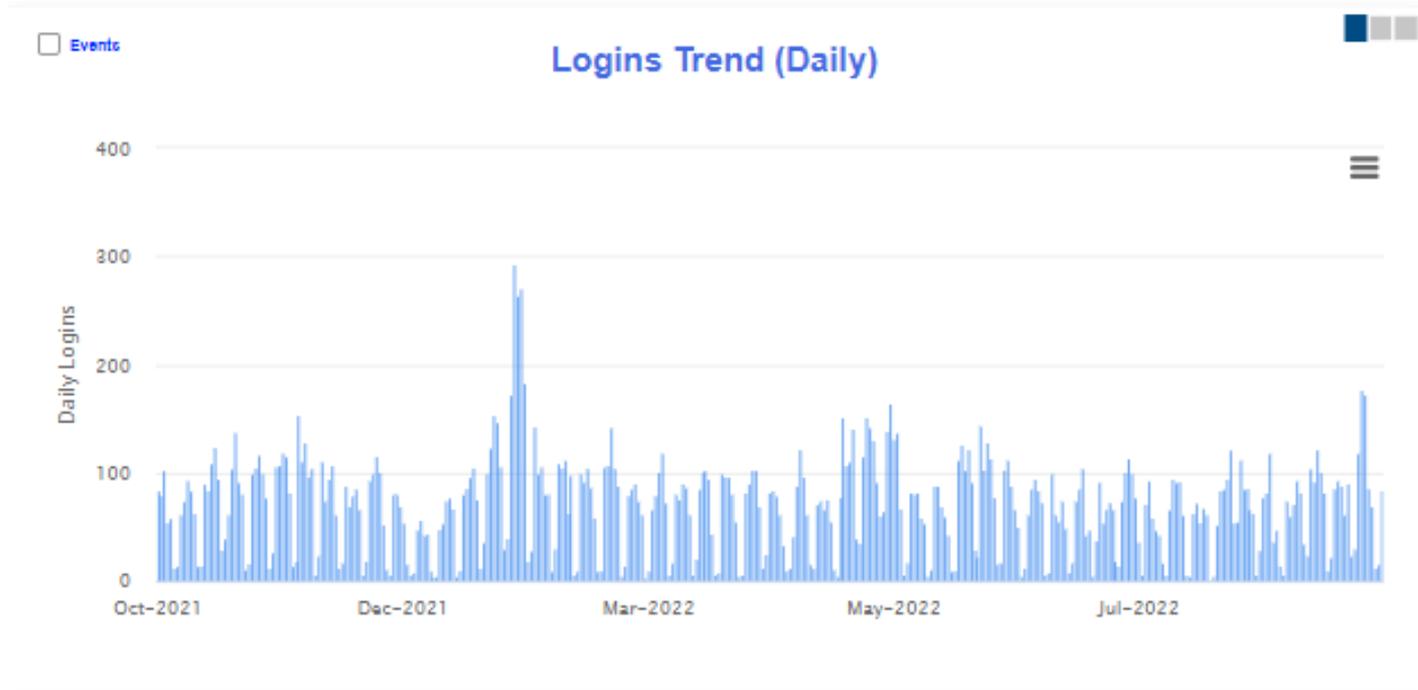
[Go to eTools >>](#)

**My Admin** (Administration Focal Point ONLY) 

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

[Go to myAdmin >>](#)





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

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

“Recherche en ligne dans les Plans”

eQuery



Version Read-Only de la base des données du BR  
(mise à jour journalière)

Recherche par :

- Code d’administration
- Zone géographique
- Fréquence
- Identificateur unique de l’administration
- Numéro d’identification du BR
- Statut (enregistré/publié)
- Nom de site

“Sections spéciales,  
Le jour de la publication!”

ePub



Instantanée de la base de données  
du jour de la Publication

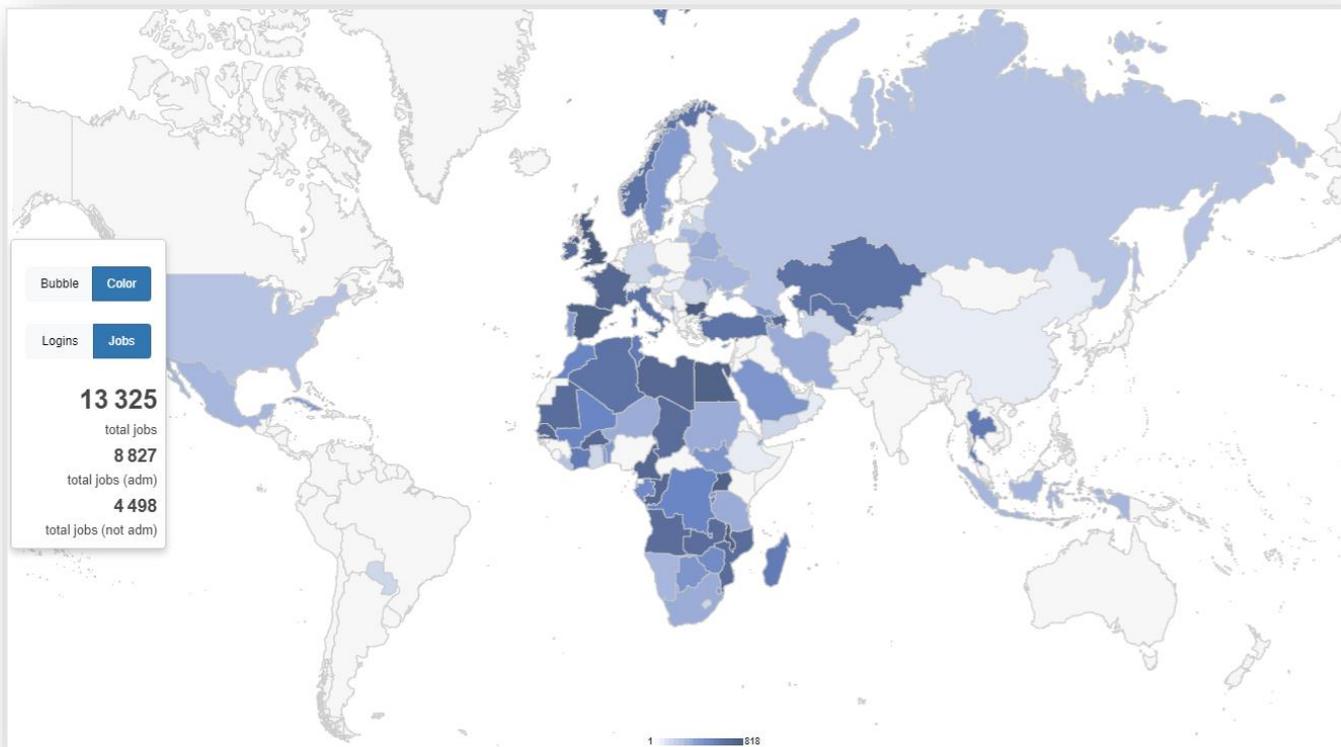
Recherche par :

- Numéro de BRIFIC
- Code de l’administration
  - Mes notifications
  - Notifications qui m’affectent

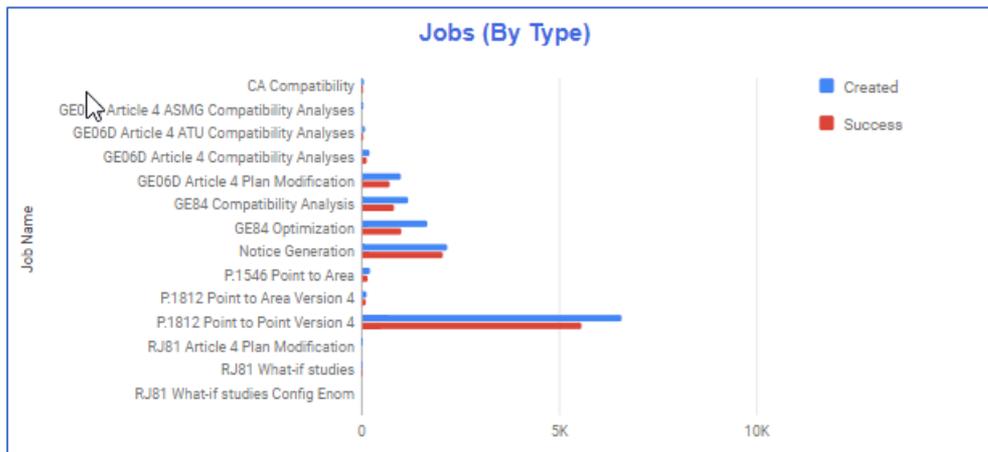
Toutes les Section spéciale pour les  
plans de radiodiffusion depuis 2007

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

“Calculs de test à la demande”



“Calculs de test à la demande”



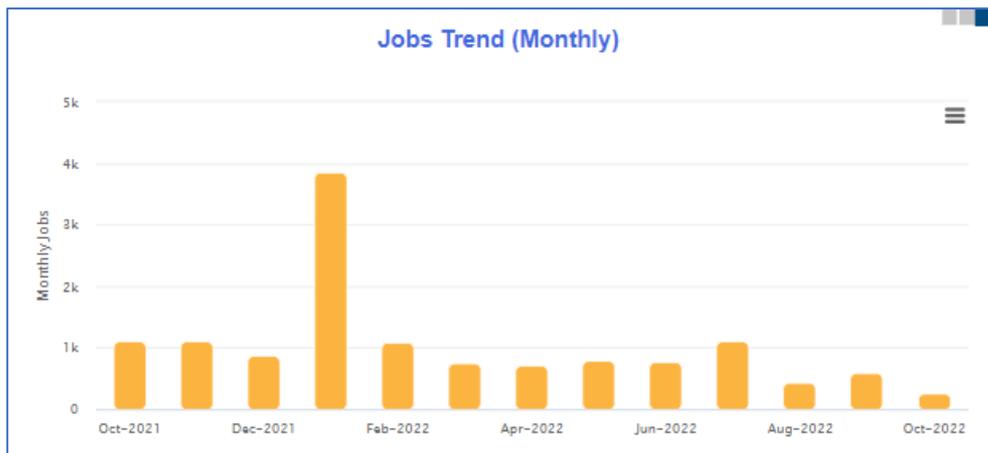
Calculation farm



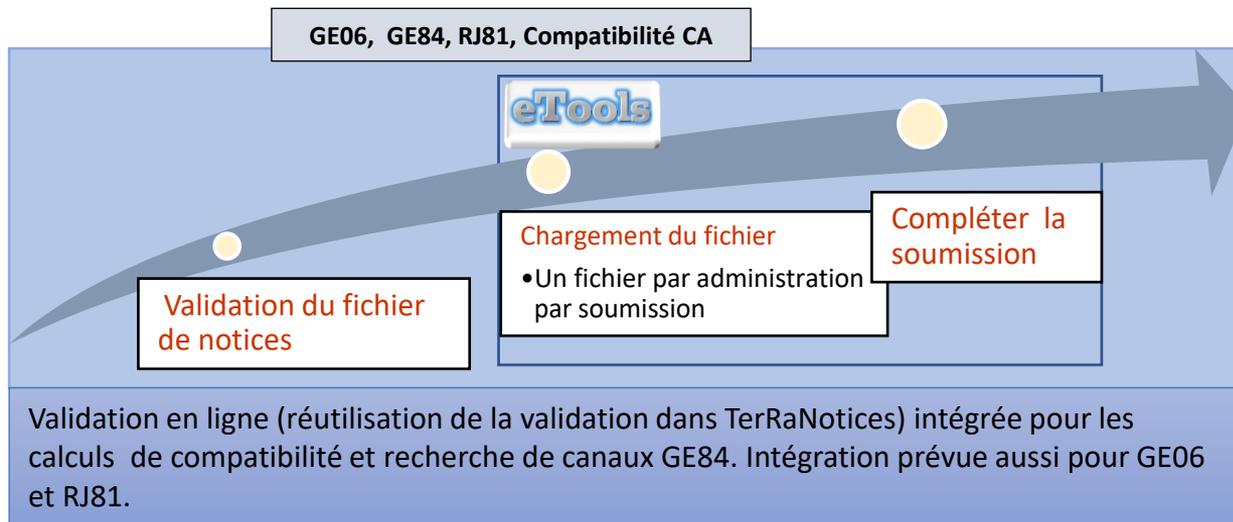
30 processes

## Infrastructure de serveurs :

UIT: 30 processus indépendants sont actuellement disponibles sur les serveurs de l'UIT pour les calculs



## Soumission de fichiers de notifications



L'infrastructure de traitement distribué de l'UIT traite votre soumission et vous informe quand elle a été traitée!



Vérifiez votre compte email!

## Traitement des soumissions

## Traitement des soumissions, confidentialité & partage des résultats

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 4:38:49 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

Adm: I file: IMP\_FM\_ITU\_BR\_AM.txt  
 Parse status: T\_PARSE\_HAS\_ERRORS  
 Total number of errors: 11  
 Total number of warnings: 10

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

**Notice 94 (Line 9101) - T01/ADD**  
 Line 9101 : DeepVal Error - Vertically Polarized ERP (58.0 dBW) not valid. Valid range: <= 57.0 dBW.

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

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

SVP contacter [brbcd@itu.int](mailto:brbcd@itu.int)  
 Si le/les messages d'erreur ne sont pas clairs

## Confidentialité & partage des résultats

Environ **1350** Calculs partagés  
 par **880** utilisateurs de **90**  
 Administrations

Les Caculs (soumissions et résultats) sont confidentielles, mais...



... Aide à la coordination!



... vous pouvez, si vous le désirez, les partager avec d'autres utilisateurs enregistrés dans eBroadcasting!



# eBroadcasting >> eTools >> GE84 Compatibility Analyses (Analyses de compatibilité)

Please select the calculation type

GE84

GE84 Compatibility Analyses

New Calculation

Select the proposed modification

87.7MHz\_RTS Andijan\_072°23'30"E-40°42'57"N-Id:1

Result **Affected** Interferers

Export to Excel

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

Assign ID	Adm	Intent	Stn Cls	Assigned Frequency (MHz)	Polar	Site Name	Total Distance (km)	Cold Sea Path (km)	Warm Sea Path (km)	Super refractivity Path (km)	ERP (dBW)	Azimuth (deg)	PR (dB)	NFS	Eu Ref	Proposed Eu	Current Eu	Eu increase (dB)
113066089	KGZ	RECORDED	BC	87.6	V	PPC18	43	-	-	-	38.6	121	33	82.23	88.59	87.62	81.93	5.69
113066084	KGZ	RECORDED	BC	87.6	V	Malyasai 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	RRS0ULCHA	87	-	-	-	38.6	115	7	67.9	73.84	81.1	79.64	1.46
118018296	KGZ	RECORDED	BC	88.1	V	RRS-6 2 Yuzhnaya 2	72	-	-	-	38.6	45	-20	62.75	108.23	121.72	121.72	0
118018297	KGZ	RECORDED	BC	87.9	V	Djalal-Abad	58	-	-	-	38.6	65	7	61.66	133.12	104.75	104.75	0
115125429	KGZ	RECORDED	BC	87.7	V	ISFANA	262	-	-	-	38.6	249	37	60.23	100.39	104.08	104.08	0
118077926	KGZ	RECORDED	BC	87.9	V	RRS-50 Tash-Kumyr	72	-	-	-	38.6	349	7	52.84	111.06	108.06	108.06	0
120145091	KAZ	RECORDED	BC	87.7	V	KOKSARA1 UKO	414	-	-	-	38.6	303	37	51.7	55.14	59.8	56.33	3.47
113066081	KGZ	RECORDED	BC	88	V	PPC62	61	-	-	-	38.6	64	-7	48.2	96.97	111.3	111.3	0
113066075	KGZ	RECORDED	BC	87.9	V	Karakul PPC	115	-	-	-	38.6	18	7	41.84	65.52	96.22	95.22	0
113066070	KGZ	RECORDED	BC	88.1	V	PPC30	24	-	-	-	38.6	158	-20	41.61	94.31	76.94	76.93	0.01
118077927	KGZ	RECORDED	BC	87.9	V	Batken	151	-	-	-	38.6	242	7	40.88	141.95	141.95	141.95	0
118077928	KGZ	RECORDED	BC	87.9	V	RRS-Arka	230	-	-	-	38.6	253	7	37.67	121.1	122.16	122.16	0
116212203	KGZ	RECORDED	BC	87.5	V	RRS-13 Ala-Myshyk	303	-	-	-	38.6	74	7	32.35	70.67	70.67	70.66	0.01
113066088	KGZ	RECORDED	BC	87.9	V	Suluikta PPC	254	-	-	-	38.6	250	7	31.79	64.95	113.28	113.28	0
114035256	KGZ	RECORDED	BC	87.5	V	Evropa	193	-	-	-	38.6	356	7	30.36	68.22	68.34	68.33	0.01

Previous 1 Next



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

## Showing results for assignable requirements from NMB

Select requirement:

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

GE84 Optimization Description

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

Details of the requirement under consideration

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

Frequency (MHz)		Top five interferers														
Assign ID	Adm.	Intent	Class	Freq.	Pol.	Site Name	Dist.	Cold Sea	Warm Sea	Sup. Refr.	ERP	Azim.	Prot. Ratio	NFS	Coord.	
FLEX	66	AFS	ADD	BC	FLEX	H	AUGRABIES	73	0	0	0	47	310.9	45	101.16	---
	70	AFS	ADD	BC	FLEX	H	NOENIEPUT	76	0	0	0	47	216.8	45	97.01	---
	248	NMB	ADD	BC	FLEX	H	UR	144	0	0	0	47	118.8	37	89.81	---
	213	NMB	ADD	BC	FLEX	H	NM 5	115	0	0	0	47	141.1	37	89.61	---
	62	AFS	ADD	BC	FLEX	H	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	---
			084000076	AFS	RECORDED	BC	87.6	H	KEETMANSHOOP	241	0	0	0	47	136.1	25	62.23	---

Instrumental lors du project d'optimisation du plan GE84 pour l'Afrique (2020-2022)

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

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

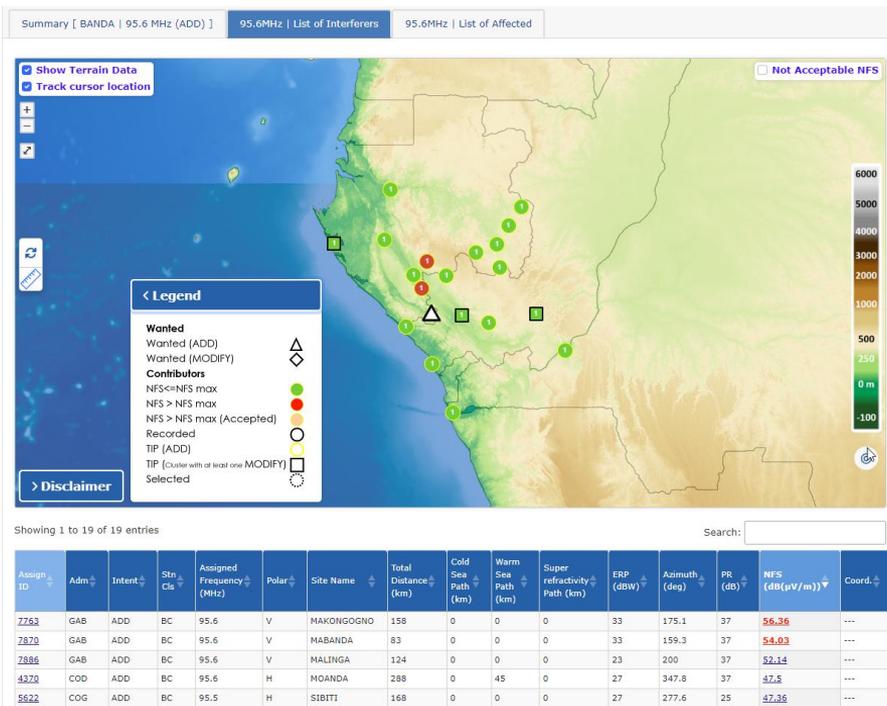
Select Analysis option   Select Administration  
Evaluate Statistics   COG   Evaluate Statistics

Adm	Submitted	Assignable	Non Assignable
COG	606	373	233

Show Terrain Data    Track cursor location

ADD    MODIFY

> Disclaimer



Possibilité d'effectuer des Calculs P.1812 P2P pour évaluer l'impact du terrain

M/S Calculation with P.1812+4 (Beta)

**Transmitter Info** (click to hide)

Adm: GAB Name: MAKONGOGNO ERP (dB): 7763  
 Freq (MHz): 95.6 Mod: WDM (WDM) Mod (MHz): 420251  
 Pol: V Pol (deg): 60 Elevation: 33  
 Vertical: 60

**Receiver Info** (click to show)

**Propagation Model** (click to toggle)

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

**FS Labels** (click to show)

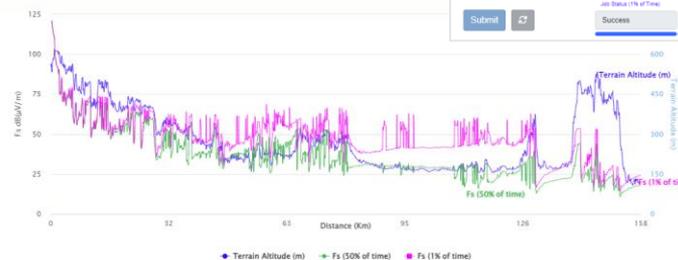
**Results** (click to hide)

Trips Calculation Steady Calculation

Job (1% of Time)	Job (50% of Time)	Job (50% of Time)	F. (dB)	F. (dB)
153386	153385	10	0	0
37	45	157.5	175	
24.13	17.73	52.73 (Steady)		

Submit Success Success

Terrain Altitude vs. Fs.



## Modification du plan GE06D (examen de coordination/ conformité)

The screenshot displays the 'Details of Proposed Modification' section with the following data:

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

Below this, the 'Details of Existing Allocation' table shows:

Geo Adm	Geo Area	Intent	Alloc Name	Freq Assgn (MHz)
FIN	FIN	RECORDED	POSD	490

The interface also features a map showing 'Proposed Modification' and 'Existing Digital Plan Entry' with various field strength contours (200 km, 250 km, 300 km, 350 km) and a 'Cut-Off Field Strength Contour' table.

## Analyses de compatibilité GE06

Calculs d'interférence entre les nouveaux besoins (à partir des fichiers de notification électroniques) et les assignations de plan existants

### Job Summary

Job Id	Job name	Status
81567	test	Success

### Job Input

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

Download results

Fichier MS Access mdb à visualiser avec GE06Calc.

Contribue à la planification dans les organisations régionales

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

eTools Disclaimer eTools Documentations

The processing system is currently ONLINE (28 processes available)

Please select the calculation type

Test Packages (click to show)

Job Input Details (click to hide)

Job Summary

Delete Share

Job Id	Job name	Status
18951	test	Success

Job Input (1 File(s))

Adm	E-notice file	Number of Notices
ARG	<a href="#">ARG_2Notices_56_57.txt</a>	2

Job Output (click to hide)

Job Output

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

Select the proposed modification

Select the affected protected station

Export to Excel

Showing 1 to 3 of 3 entries Show 25 entries

Search:

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

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

Suite aux demandes CITEL(2014-2015)

Calculs d'interférence entre les nouveaux besoins (à partir des fichiers de notification électroniques) et les assignments de plan existants dans le MIFR et les assignments enregistrées

Job Summary Delete ✖ Share

Job Id	Job name	Status
78840	test	Success

Job Input

Adm	E-notice file	Number of Notices
MEX	MEX_78840_IN.txt	4

Job Output

[Download results](#)

MS Access mdb file to be visualized with CA Display

[Manuel CA Display](#)

[Manuel CA compat](#)

## COMTELCA

- Basé sur le logiciel EBU développé pour la planification RRC06
- Principales modifications
  - Modèle de propagation ITU-R P.1546-5 (correction de l'indice de réfraction) vs ITU-R P.1546-2 (zones de propagation)
  - Rapports de protection pour toutes les normes numériques (vs. DVB-T uniquement)

“Mon propre bureau pour les services de radiodiffusion@ITU : ouvert ~24/7”

Point focal uniquement

CR 408 : Accès restreint aux **point focaux** uniquement depuis novembre 2016 pour les services myAdmin et de notification par e-mail.

313 points focaux de 113 administrations

AFG	0	AFS	3	AGL	1	ALB	0	ALG	4	AND	0	ARG	0	ARM	1	ARS	7	ATG	0	AUS	1	AUT	7
AZE	2	B	0	BAH	0	BDI	2	BEL	4	BEN	2	BFA	2	BGD	0	BHR	5	BIH	3	BLR	2	BLZ	0
BOL	2	BOT	0	BRB	0	BRM	0	BRU	0	BTN	0	BUL	3	CAF	0	CAN	0	CBG	0	CHL	0	CHN	3
CLM	0	CLN	0	CME	6	COD	0	COG	5	COM	4	CPV	1	CTI	3	CTR	0	CUB	0	CVA	1	CYP	3
CZE	2	D	2	DJI	1	DMA	0	DNK	1	DOM	0	E	4	EGY	3	EQA	0	ERI	0	EST	3	ETH	0
F	13	FIN	2	FJI	0	FSM	0	G	3	GAB	2	GEO	2	GHA	1	GMB	1	GNB	0	GNE	1	GRC	0
GRD	0	GTM	0	GUI	2	GUY	0	HND	0	HNG	6	HOL	0	HRV	5	HTI	0	I	6	IND	2	INS	2
IRL	4	IRN	4	IRQ	0	ISL	0	ISR	0	J	1	JMC	0	JOR	4	KAZ	3	KEN	3	KGZ	1	KIR	1
KNA	0	KOR	1	KRE	0	KWT	0	LAO	0	LBN	0	LBR	3	LBY	4	LCA	0	LIE	1	LSO	2	LTU	4
LUX	1	LVA	2	MAU	1	MCO	2	MDA	2	MDG	3	MEX	0	MHL	0	MKD	2	MLA	3	MLD	0	MLI	2
MLT	2	MNE	1	MNG	0	MOZ	4	MRC	5	MTN	6	MWI	0	NGC	0	NGR	1	NIG	3	NMB	2	NOR	5
NPL	0	NRU	0	NZL	2	OMA	6	PAK	1	PHL	1	PHL	0	PNG	0	PNR	0	POL	1	POR	3	PRG	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																				

Si aucun coordonnateur n'est notifié au BR → utilisation des adresses mail officielles (Pas d'accès myAdmin dans ce cas 😊)

[brbcd@itu.int](mailto:brbcd@itu.int)

### Latest Special Sections and Output correspondence



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

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



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

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

Plan	Special Section	PubPart	Number of Notices
GE06	197	B1	13

BR Outgoing Correspondence

ALL ▾

Showing 1 to 25 of 232 entries Show  entries Search:

Plan	Special Section	Correspondence	Date Letter	Deadline	Document	Number of days for comment/action
GE84	316	50 days reminder	29 Sep 2022	9 Oct 2022	<a href="#">31E/RCO/IO-2022-003693</a>	expired
GE84	315	70 days reminder	22 Sep 2022	20 Oct 2022	<a href="#">31E/RCO/IO-2022-003596</a>	9
GE84	317	Publication of Special Section	6 Sep 2022	26 Oct 2022	<a href="#">31E/RCO/IO-2022-003419</a>	15
GE84	315	50 days reminder	1 Sep 2022	11 Sep 2022	<a href="#">31E/RCO/IO-2022-003383</a>	expired
GE84	314	70 days reminder	24 Aug 2022	22 Sep 2022	<a href="#">31E/RCO/IO-2022-003244</a>	expired
GE06	193	50 days reminder	18 Aug 2022	11 Sep 2022	<a href="#">31B/RCO/IO-2022-003210</a>	expired
GE84	316	Publication of Special Section	9 Aug 2022	28 Sep 2022	<a href="#">31E/RCO/IO-2022-003118</a>	expired
GE84	314	50 days reminder	5 Aug 2022	15 Aug 2022	<a href="#">31E/RCO/IO-2022-003083</a>	expired
GE06	169	2 years and 75 days reminder	26 Jul 2022	18 Oct 2022	<a href="#">31B/RCO/IO-2022-002963</a>	7
GE06	194	Publication of Special Section	26 Jul 2022	9 Oct 2022	<a href="#">31B/RCO/IO-2022-002972</a>	expired

## Tableau de bord Plans &amp; MIFR



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

## Tableau de bord Plans &amp; MIFR



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

Tableau de bord Plans & MIFR



MyAdmin: Virtual ITU broadcasting office

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

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

GE84/F

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

Showing 1 to 18 of 18 entries Show 50 entries

BR Id	Adm	Site Name	Assigned Frequency	Intent	Special Section	End Date(Comments)	Coord Completed	ObjectionBy	Coord Required
122084873	F	RETHEL	93.8	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122084880	F	REIMS	91.7	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX SUI		AUT BEL D G HOL 1 LIE LUX SUI
122084878	F	MONTBARD	94.3	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084874	F	MONTBARD	105.4	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084875	F	MONTBARD	89.7	ADD	318	12 Jan 2023	AUT BEL D G HOL 1 LIE LUX MCO SUI		AUT BEL D G HOL 1 LIE LUX MCO SUI
122084881	F	AUTUN	99.6	ADD	318	12 Jan 2023	AUT BEL D HOL 1 LIE LUX MCO SUI		AUT BEL D HOL 1 LIE LUX MCO SUI
122084876	F	BESANCON	105.6	ADD	318	12 Jan 2023	AUT BEL D HOL 1 LIE LUX MCO SUI		AUT BEL D HOL 1 LIE LUX MCO SUI
122084877	F	LUXEUIL LES BAINS	101.9	ADD	318	12 Jan 2023	AUT BEL C2E D HOL 1 LIE LUX MCO SUI		AUT BEL C2E D HOL 1 LIE LUX MCO SUI
122083087	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
122083430	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
122083088	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
122083820	F	VALENCIENNES	87.7	MODIFY	315	17 Nov 2022	BEL D G HOL LUX SUI		BEL D G HOL LUX SUI
122080282	F	FREJUS 3	106.3	ADD	314	20 Oct 2022	AUT CVA D E 1 LIE MCO SMR SUI		AND AUT CVA D E 1 LIE MCO SMR SUI
122001328	F	S ROSE	87.6	ADD	310			MAU	MAU
121124520	F	COTTI CHIAVARI	93.5	MODIFY	309		CVA E HRV 1 SMR SUI TUN		AND CVA E HRV 1 MCO SMR SUI TUN
122000004	F	BORFACIO	102.1	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN
122000002	F	BORFACIO	95.9	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN
122000001	F	BORFACIO	93.9	ADD	309		CVA E MCO SMR SUI	1	CVA E 1 MCO SMR SUI TUN

Previous 1 Next

GE84/F

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

Showing 1 to 1 of 1 entries Show 50 entries

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

Previous 1 Next

Point focal uniquement

Tableau de bord Plans & MIFR



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

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

Point focal uniqueness

Sun 11/27/2016 4:49 AM  
 eBCD, ITU  **Tous les dimanches à 4h00**

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

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

Dear Madam/Sir

Wed 11/23/2016 4:46 AM  
 eBCD, ITU 

The Radiocommunication Bureau have just been entered in the d: **Publication of your proposed plan modifications (G)**

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

**Latest Coordination for G**

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

Dear Madam/Sir

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

Plan	Special Section	Pub Part	NoNotices
GE84	246	A	3

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

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



eBCD, ITU

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

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

Mon 10/10/2022 4:25 AM

Dear Madam/Sir

On date Thursday, September 22, 2022 the Bureau

The Bureau has also later informed you via e-mail

The Bureau wishes to inform you that the limit of

**Important: Please do not reply to this email**

For any further clarification or additional information

Adm (ITU)
MailBox
GE06D
GE84
ST61
GE75
MIFR

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

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

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

**BR Outgoing Correspondence**

ALL v

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	<a href="#">31E(BCD)O-2022-002767</a>	43
GE84	316	50 days reminder	29 Sep 2022	9 Oct 2022	<a href="#">31E(BCD)O-2022-002692</a>	expired
GE84	315	70 days reminder	22 Sep 2022	20 Oct 2022	<a href="#">31E(BCD)O-2022-003596</a>	9
GE06	196	Publication of Special Section	20 Sep 2022	4 Dec 2022	<a href="#">31E(BCD)O-2022-002563</a>	54
GE84	317	Publication of Special Section	6 Sep 2022	26 Oct 2022	<a href="#">31E(BCD)O-2022-002419</a>	15
GE84	315	50 days reminder	1 Sep 2022	11 Sep 2022	<a href="#">31E(BCD)O-2022-002383</a>	expired
GE84	314	70 days reminder	24 Aug 2022	22 Sep 2022	<a href="#">31E(BCD)O-2022-002244</a>	expired
GE06	193	50 days reminder	18 Aug 2022	11 Sep 2022	<a href="#">31E(BCD)O-2022-002210</a>	expired

## Calculs selon les modèles de propagation UIT-R (séries P) pour les services de terre

### ➤ **Maintenant dans eTerrestrial**

### ➤ **Nouvelles fonctionnalités**

- Affichage cartographique intégré
- Interface utilisateur améliorée
- Options de 3 DEMs (SRTM valide uniquement dans la plage de latitudes [-56,60])
- Possibilité de lire à partir de Notices et de réutiliser les paramètres d'entrée d'autres calculs
- P.1812 proposé en option dans les calculs GE84

**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**

**Modèle déterministe:**

Modélise tous les phénomènes physiques qui jouent un rôle dans la propagation dans la bande VHF-UHF

**Profil spécifique**

Utilise le profil du terrain (élévation au-dessus du niveau moyen de la mer).

- 30 MHz - 6 GHz
- 0.25 km - 3000 km
- 1% < temps < 50%
- 1% < emplacements < 99%
- Rx et Tx hgt agl <= 3km

**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**

**Modèle empirique**

Basé sur des mesures de terrain approfondies et une analyse statistique

**Profil général**

L'effet du terrain uniquement via :

- Hauteur d'antenne effective
- Correction de l'angle de dégagement
- Correction de la diffusion troposphérique

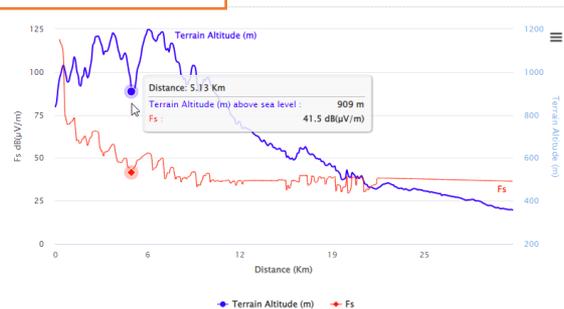
- 30 MHz - 4 GHz
- 1 km - 1000 km
- 1% < temps < 50%
- 1% < emplacements < 99%
- Rx et Tx hgt agl <= 3km

## P.1812-6(09-21)

Prédiction de la propagation en utilisant le profil de terrain (modèle déterministe)

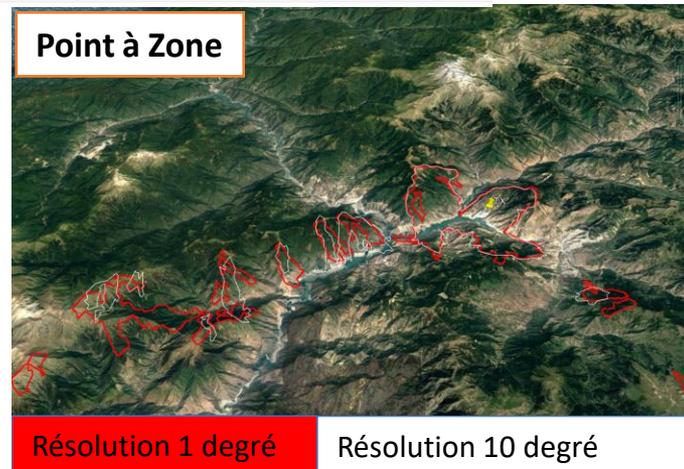
- 30 MHz - 6 GHz
- 0.25 km - 3000 km
- 1% < temps < 50%
- 1% < emplacements < 99%
- Rx et Tx hgt agl <= 3km

### Point à Point



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

### Point à Zone



Résolution 1 degré

Résolution 10 degré

## P.1546-6(08-19)

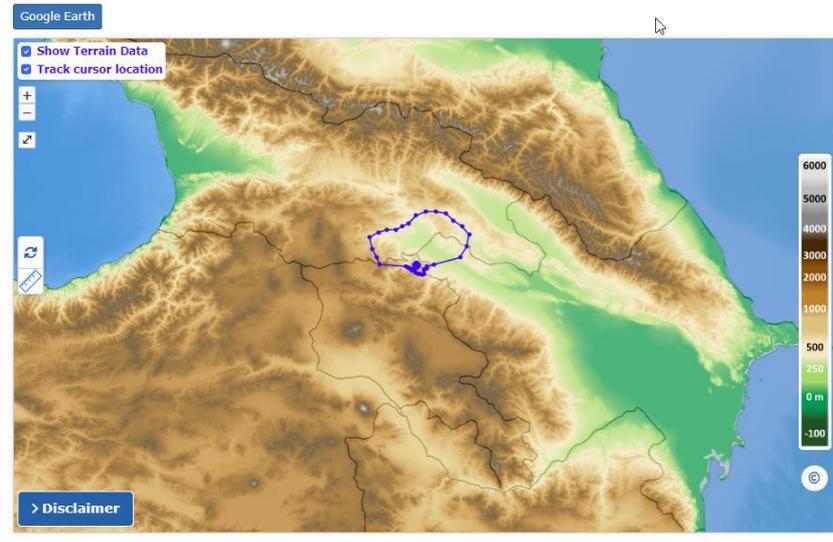
Prédiction de propagation (modèle empirique)

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

### Point à Zone

Job Input

Adm	Input Parameters
ARM	 <a href="#">Use as Input</a> <a href="#">Display Input Parameters</a>





## eMIFR: on-line query for terrestrial services

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

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

### Selection Criteria

Administration

Geographic Area

Notice Type

Class of Station

Administration

>> >

AFG  
AFS  
AGL  
ALB  
ALG  
ARG  
ARM  
ARS  
ATG  
AUS  
AUT

< <<

Frequency Unit

kHz

Fmin

Fmax

Consider Bandwidth

BR Assign Id (From)

BR Assign Id (To)

Unique Id. code given by Administration

Site Name

Date of Receipt (From)

Date of Receipt (To)

Status

Recorded  Pending

Apply filter



## MIFR (Broadcasting)

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

Showing 1 to 50 of 178 entries Show  entries

Search:

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



MIFR (Broadcasting) IF/112181685

Print

## Administrative (click to hide)

Administration  
 Unique identification code given by the administration  
 Identifier assigned by the BR  
 Date of Receipt  
 Date in use  
 Date of Notification  
 Date of recognition  
 Date of Expiry

ALB  
**AL0090-CER1**  
 112181685  
 2 Nov 2012  
 1 Oct 2012  
 2 Nov 2012  
 1 Oct 2024

Intent  
 Fragment  
 Notice Type

RECORDED  
 NTFD\_RR  
 GT1

Amendment Type  
 Blue Entry Code

RECORDED  
 7

FMTV

FXM

LFMF

## Site Characteristics (click to hide)

Transmitting Antenna Site Name  
 Longitude  
 Altitude of site above sea level (m)

CER1  
 20° E 35' 42"  
 960

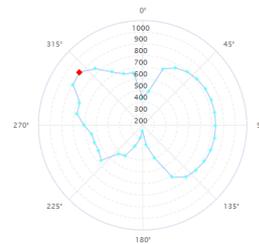
## Emission Characteristics (click to hide)

Assigned Frequency  
 Frequency Block  
 Antenna Directivity  
 Height of Antenna Above Ground Level  
 Maximum effective radiated power(dBW), horizontal component  
 Transmission System  
 Rx mode

474  
 D  
 12  
 21.5.  
 C3  
 PI

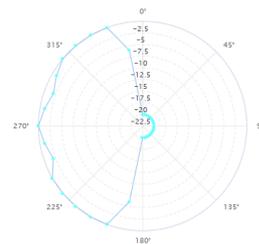
## Effective Antenna Height(m) (click to hide)

000°	441	010°	496	020°	714
030°	769	040°	800	050°	816
060°	827	070°	831	080°	833
090°	831	100°	831	110°	827
120°	819	130°	799	140°	782
150°	715	160°	498	170°	371
180°	249	190°	311	200°	391
210°	503	220°	521	230°	668
240°	637	250°	642	260°	645
270°	707	280°	775	290°	777
300°	895	310°	910	320°	835
330°	729	340°	669	350°	658



## Antenna attenuation (horizontally polarized component, dB) (click to hide)

000°	20	010°	20	020°	20
030°	20	040°	20	050°	20
060°	20	070°	20	080°	20
090°	20	100°	20	110°	20
120°	20	130°	20	140°	20
150°	20	160°	20	170°	20
180°	20	190°	6	200°	0
210°	0	220°	0	230°	0
240°	0	250°	2	260°	1
270°	0	280°	1	290°	2
300°	1	310°	0	320°	0
330°	0	340°	0	350°	6



- **Intégration d'eFXM dans eTerrestrial**
- **Intégration des outils HFBC dans eBroadcasting**
- **Développement d'outils de calculs pour GE75 et affichage des résultats de coordination détaillés**
- **Développement d'outils plus centrés sur l'utilisation des cartes numériques**
- **Implémentation de nouveaux modèles de propagation de la série ITU-R P**

Connectez-vous à la plateforme

[eTerrestrial.](#)

Si vous n'avez pas de compte TIES, utilisez le compte générique:

- nom d'utilisateur : user1
- mot de passe : user1

Explorez les outils disponibles (myAdmin : accès limité aux points focaux uniquement)

1. Définissez des critères de sélection pour les plans des notices publiés ou des assignations enregistrées pour votre administration
2. Récupérez les données
3. Parcourez les informations récapitulatives et les détails des assignations
4. Exportez les informations vers Excel / Google Earth

1. Consultez les informations concernant les Sections Spéciales d'un plan de votre choix
  - Parcourez les administrations affectées/notificatrices
  - Parcourez les informations récapitulatives et les détails des notices / assignations
2. Sélectionnez votre Administration
  - Pour le Plan de votre choix, retrouvez les Sections Spéciales qui incluait vos modifications ou notifications affectant votre Administration
3. Si vous êtes un point focal, vérifiez que vous avez bien reçu la notification par e-mail vous informant des nouvelles publications

1. Lisez la clause de non-responsabilité (Disclaimer) pour vous assurer de bien comprendre la portée et les limites de l'outil
2. Consultez le lien Documentations
3. Soumettez un Calcul de propagation P1812 P2P ou P1546 P2A
4. Affichez les résultats lorsque le calcul est terminé (un e-mail sera envoyé à votre compte e-mail)
5. Partagez le Calcul avec un ou plusieurs de vos voisins. Vérifiez qu'ils peuvent accéder au Calcul.
6. Supprimez un Calcul s'il ne vous intéresse plus.

Point Focal uniquement !

- a. Êtes-vous un point focal? Si vous êtes impliqué dans la procédure de modification des plans, vous devez certainement être un point focal !
- b. Vérifiez que vous avez accès à myAdmin
- c. Consultez votre boîte aux lettres
  - 1) Y'a-t-il une correspondance provenant du BR ?
    - i. Familiarisez-vous avec les informations fournies. Cliquez sur le lien Document et ouvrez le fichier pdf.
    - ii. Avez-vous un article en rouge? Qu'est-ce que ça signifie ?
- d. Vérifiez si vous avez reçu des notifications par e-mail concernant les données de coordination, les nouvelles Sections Spéciales et les nouveaux documents concernant vos dernières publications (depuis le 15 septembre 2016).



30<sup>TH</sup> WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 octobre 2022

Genève, Suisse

**Merci!**

ITU – Bureau des Radiocommunications

Questions à:

[brbcd@itu.int](mailto:brbcd@itu.int)

[brmail@itu.int](mailto:brmail@itu.int)

[www.itu.int/go/wrs-22](http://www.itu.int/go/wrs-22)

#ITUWRS

