

30TH WORLD RADIOCOMMUNICATION SEMINAR

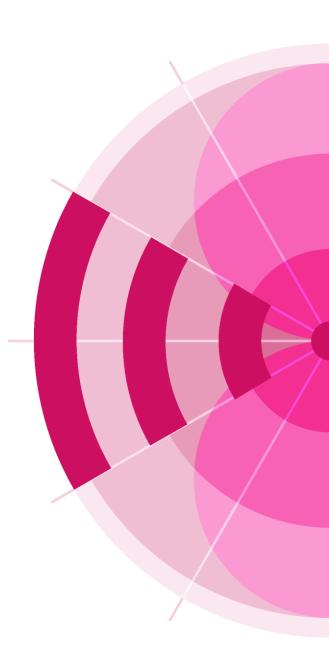
24 – 28 October 2022 Geneva, Switzerland

ITU SpaceExplorer

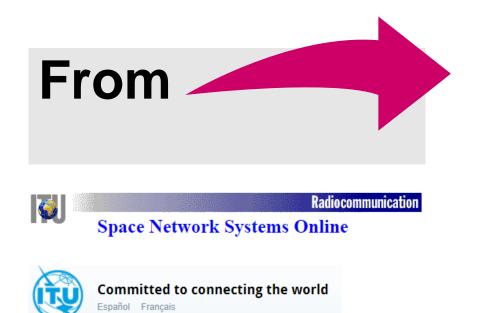
Pilot application to explore satellite filings data

By Veronique Glaude, BR Space Services Department

www.itu.int/go/wrs-22 #ITUWRS



BR Space Data Exploration Experience



Space Network List (SNL)



New BR project:

ITU SpaceExplorer

BR project:

ITU SpaceExplorer

• Integrated exploration a new user experience of BR Space Data

Data visualization

with the dashboard approach: a quick analysis to extract information from data

Continuity of use

key functionalities are maintained and new ones added

Personal space available

save explorations on demand and reuse them





ITU SpaceExplorer – Phase 1

Welcome Page



List of satellite filings on BR publications (in RED)



List of satellite filings on SNS data (in BLUE)



New! Dashboard of a satellite network

New! *My Space Explorer*





Access ITU SpaceExplorer Pilot

https://www.itu.int/go/ITUSpaceExplorer

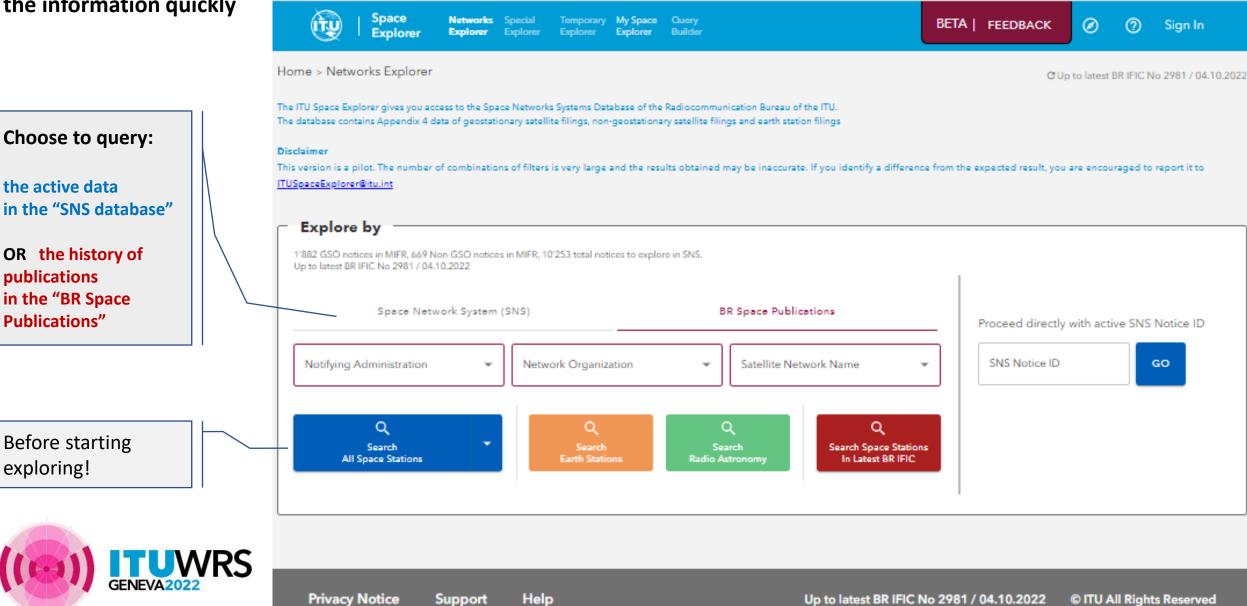




On the welcome page,

you can already make choices to access

the information quickly



Lists in RED BR Space Publications

Space

Exe

(itu)

The exploration in list format with criteria on the history of publication

> 4 filters types options expandable

	Explorer Explorer Explorer	Explorer Exp	olorer Builder					
tions	Home > Networks Explorer > List View					(OUp to latest BR IFIC	No 2981 / 04.10.2022 Legend
list	Explore Space Networks or Systems by	44 Hide F	ilters 🛉 Export	🍟 Hig	ghlight Rows 関 Show	-	Reset Filters	Results: 493
a ications	Space Network System (SNS) BR Space Publications	Details	SNS Notice ID	Notifying Adm. Network Org	/ Satellite Network Name	GSO Location East (+) or West (·) Degrees	Notice Date of Receipt	BR IFIC Publication
	Satellite Network		121520021	s	SIRIUS-5E-11	5.00	29.01.2021	CR/C/5485
	S (Sweden) S	Z	120545269	s	MIST		16.11.2020	API/B/1633
	Network Organization	Ø	116540580	s	SMMSAT-7R	159.00	19.05.2016	API/A/11738
	Satellite Network Name 👻	Ø	116520450	s	SMMSAT-7R	159.00	27.12.2016	CR/C/4311
	All Non-Plan Only Plan Only		121590062	S	SMMSAT-7R	159.00	14.09.2021	RE549/2398
		Ø	121500187	S	SMMSAT-7R	159.00	14.09.2021	PART I-S
	Publicatione ~	Ø	121520021	S	SIRIUS-5E-11	5.00	29.01.2021	CR/E/2383
			120512086	S	BEYOND-ATLAS-1		06.02.2020	PART III-S
	Type of Satellite Network 🚯 🗸	Z	120500028	S	BEYOND-ATLAS-1		06.02.2020	PART II-S
	Regulatory Process 😗 🗸 🗸		121500187	S	SMMSAT-7R	159.00	14.09.2021	PART III-S
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WRS		Results: 493	Rows per page:	10 🕶	Results: 481-490 of 493	I< <	Page: 49 / 50	
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BETA | FEEDBACK

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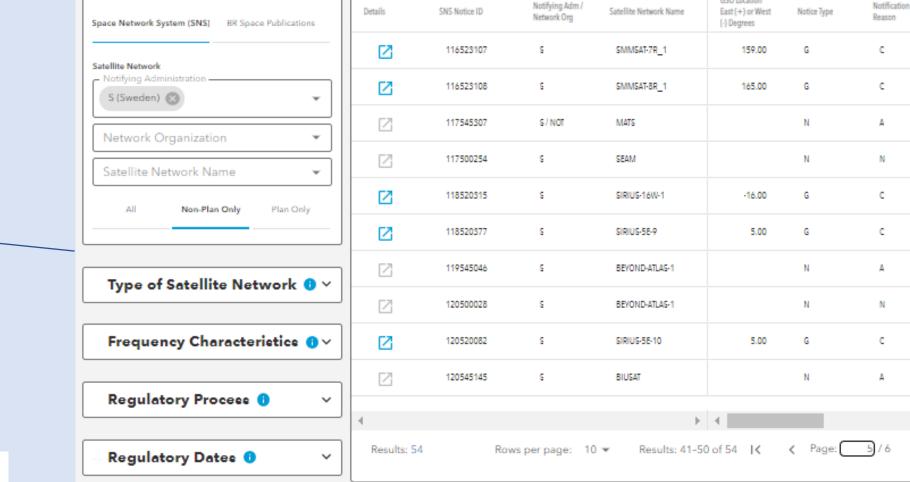
Sign In

Networks Special Temporary My Space Query

List in **BLUE Space Network System** (SNS) databases

The exploration in list format with criteria on the "active" networks

5 filters types options expandable



Export

Show Hints

Reset Filters

GSO Location





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BETA | FEEDBACK Ø 0 Sign In

CUp to latest BR IFIC No 2981 / 04.10.2022

Results: 54

Provision

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Networks Special Explorer Explorer Explorer

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Space

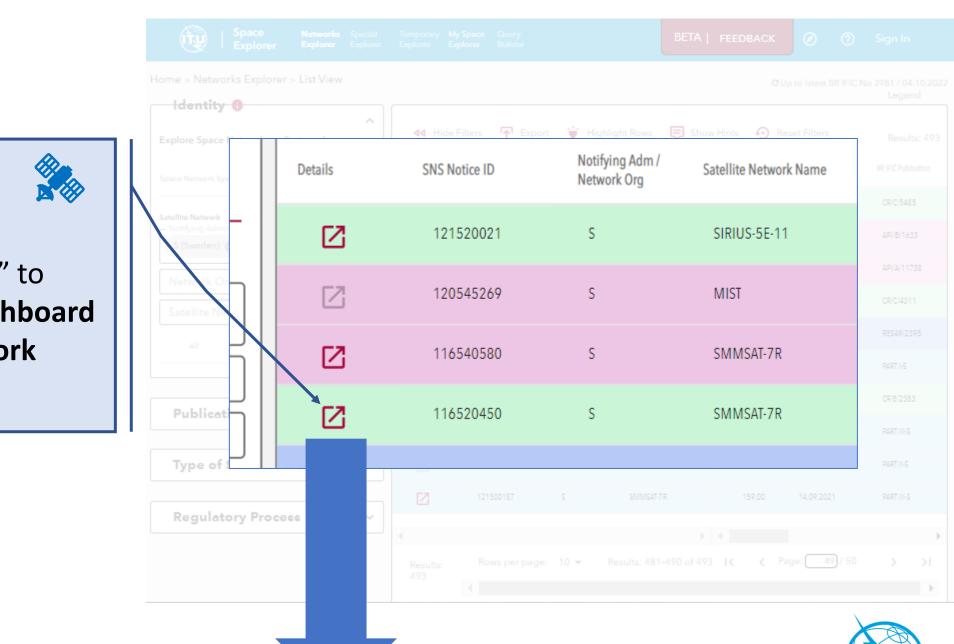
Home > Networks Explorer > List View

Explore Space Networks or Systems by

Identity 😗

Temporary My Space Query Builder

4 Hide Filters





Click "details" to view the **Dashboard** of one network

NRS

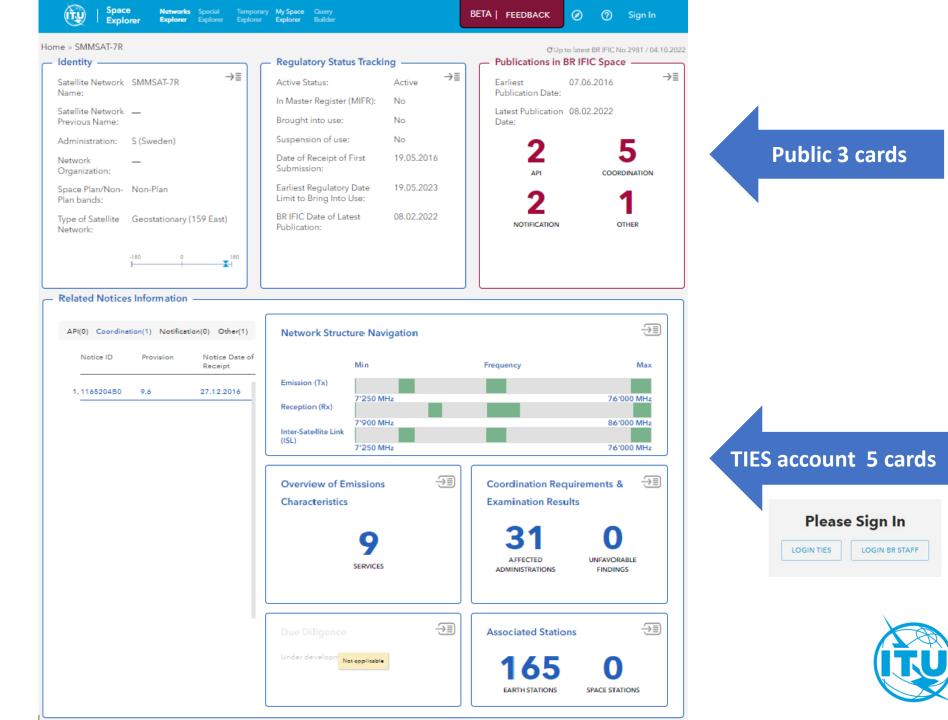
NEW!



NEW in ITU SpaceExplorer!

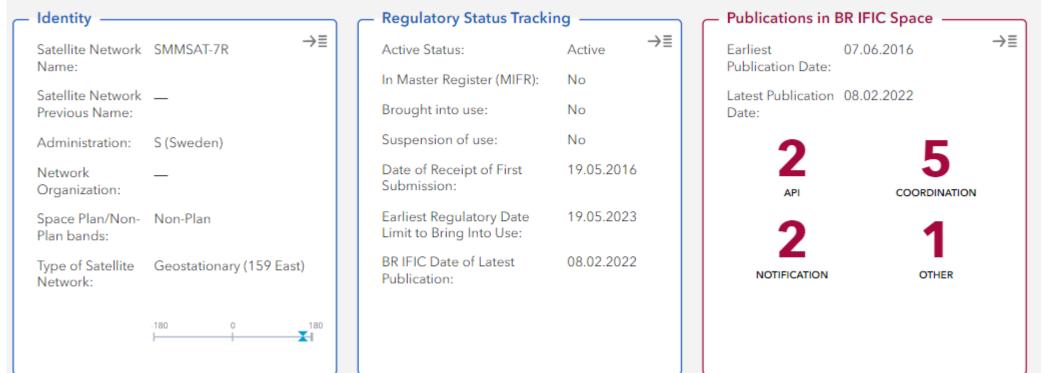
Access to the satellite network data through a concept of **dashboard**







Public 3 cards – click for more information









Public 3 cards – click for more information

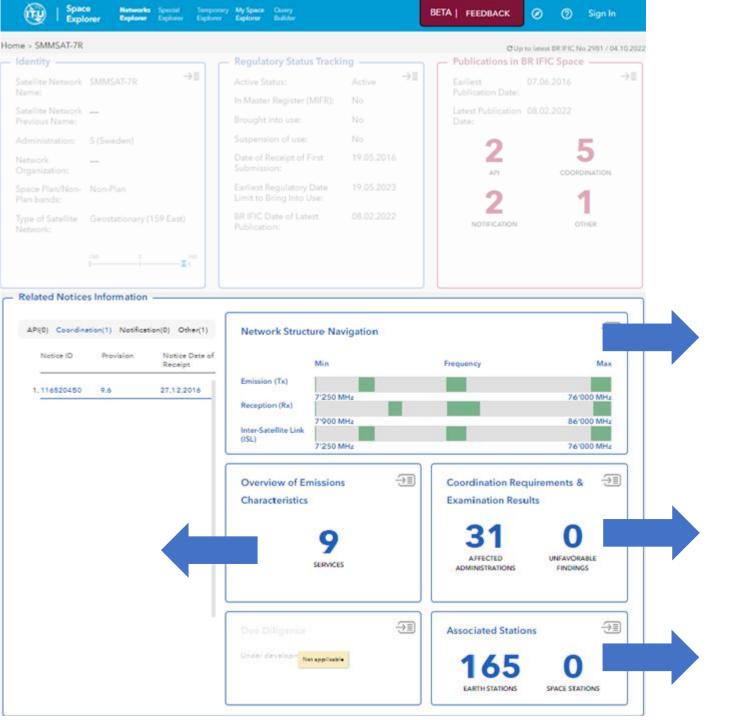
	- Identity		Regulatory Status Tr	acking -			- Publi	ications i	n BR IFI	C Space			
	Satellite Network SMMSAT-7R Name:	$\rightarrow \equiv$	Active Status: In Master Register (MIFI		SMMSAT-7R Geostationary (159 East)			Publications in BR IFIC Space Resu					
Satellite Name > Identity SMM54778 Geostationary (159 East) Satellite Network Name:	SMMSAT-7R	F Export	Brought into use:		SNS Notice ID	Satellite Network Name	Notice Date of Receipt	BR IFIC Publication	BR IFIC Publication Special Section	BR IFIC Publication Revision	BR IFIC/WIC Number	BR IFIC/WIC Date	Link to BR IFIC database
Satellite Network Previous Name: Administration:	S (Sweden)	Satellite Name	> Regulatory Status Tracking	Expor	rt 1500187	SMMSAT-7R	14.09.2021	PART III-S			2964	08.02.2022	Ŧ
Network Organization:		Geostationary (159 East S			1500187	SMMSAT-7R	14.09.2021	PART I-S			2958	02.11.2021	T
Responsible Administration:	 SWEDISH POST AND TELECOM AGENCY (PTS) P.O. BOX 5398 S-102 49 STOCKHOLM TELEFAX +48 8 6785505 TELEX 054 40777 RADCON S 	Active Status: Date of Receipt	of First Submission:	Active 19.05.2016	1590062	SMMSAT-7R SMMSAT-7R	14.09.2021 19.05.2016	RES49 API/A	2398 11738	M 1	2957 2953	19.10.2021 24.08.2021	ጉ ጉ
Operator: Space Plan/Non-Plan bands:	V3GS COMMUNICATIONS SWEDEN AB Non-Plan	Date limit to brin	ıg into use:	19.05.2023	3 6520450	SMMSAT-7R	27.12.2016	CR/C	4311	M 2	2953	24.08.2021	Ŧ
Type of Satellite Network:	Geostationary (159 East)	Brought into use	20	No	6520450	SMMSAT-7R	27.12.2016	CR/D	3411		2862	23.01.2018	T
	-180 0	Suspension:		No	6520450	SMMSAT-7R	27.12.2016	CR/E	1458		2861	09.01.2018	T
		Resumption pro	cess:	No	6520450	SMMSAT-7R	27.12.2016	CR/C	4311	M 1	2850	25.07.2017	™
		In Master Regist	ar (MIFR):	No	6520450	SMMSAT-7R	27.12.2016	CR/C	4311		2847	13.06.2017	Ŧ
((m))	TUWRS				E 6540580	SMMSAT-7R	19.05.2016	API/A	11738		2821	07.06.2016	T



NEW in ITU SpaceExplorer

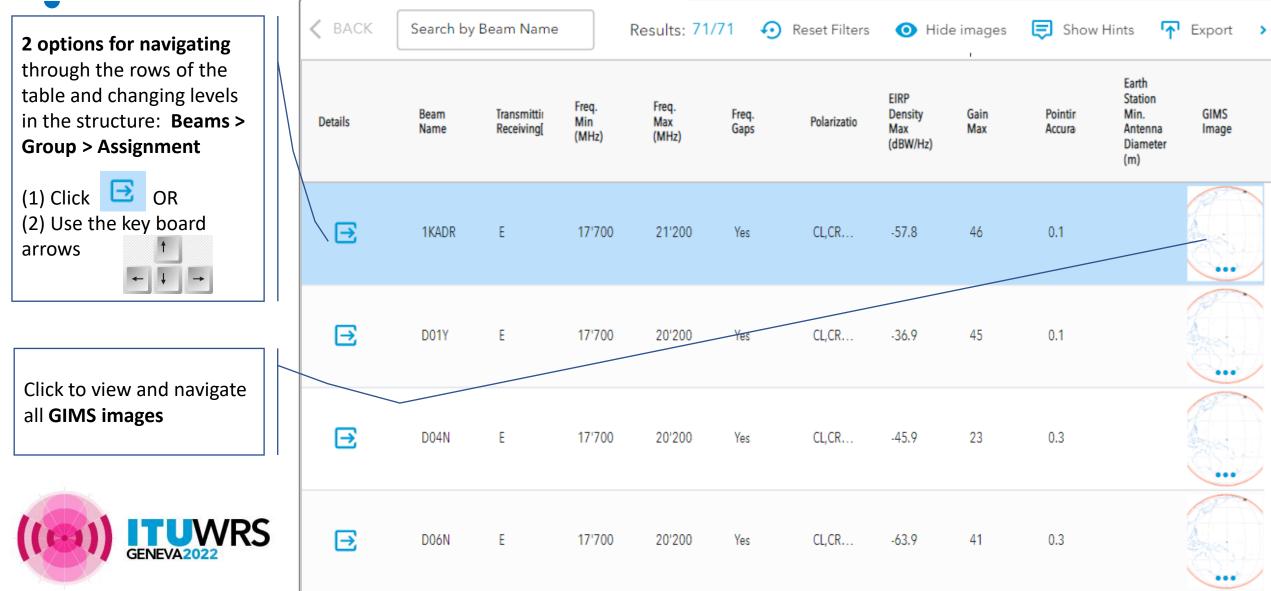
TIES account 5 cards – click for more information

/RS





NEW in ITU SpaceExplorer Dashboard – Network Structure Navigation card



NEW in ITU SpaceExplorer Dashboard – Overview of Emissions Characteristics Card

Satellite Name	>	Notice	>	Overview of Emissions Characteristic
SMMSAT-7R		116520450		
Geostationary (159 East)		Coordination		
S				

3 tabs to display the same information as in SNS on line

Emissi	ons Rece	ive Beams Tran	asmit Beams	
Filter by B	Beam Name		Results	(Beams): 34/34 📀 Reset Filters
Frequencies				
Freq. (MHz)	Bandwidth (kHz)	Freq. Band (MHz)	Class of Station	23U27L SBR TBR U01N U07U U07U U12M U12M U11R U11R U112R U112R
28'850	60000	28'820 - 28'880	EC	x
28'890	60000	28'860 - 28'920	EC	x
28'910	60000	28'880 - 28'940	EC	x
28'950	100000	28'900 - 29'000	EC	X
28'950	60000	28'920 - 28'980	EC	x
28'970	60000	28'940 - 29'000	EC	x
28'987.5	225000	28'875 - 29'100	EC	х
29'000	1000000	28'500 - 29'500	EC	x x
29'000	100000	28'950 - 29'050	EC	x
29'010	60000	28'980 - 29'040	EC	x
29'030	60000	29'000 - 29'060	EC	x



NEW in ITU SpaceExplorerDashboard – Coordination Requirements & ExaminationResults Card5 tabs to display and

 Satellite Name
 > Notice
 > Coordination Requirements & Examination Results

 SMMSAT-7R
 116520450

 Geostationary(159 East)
 Coordination

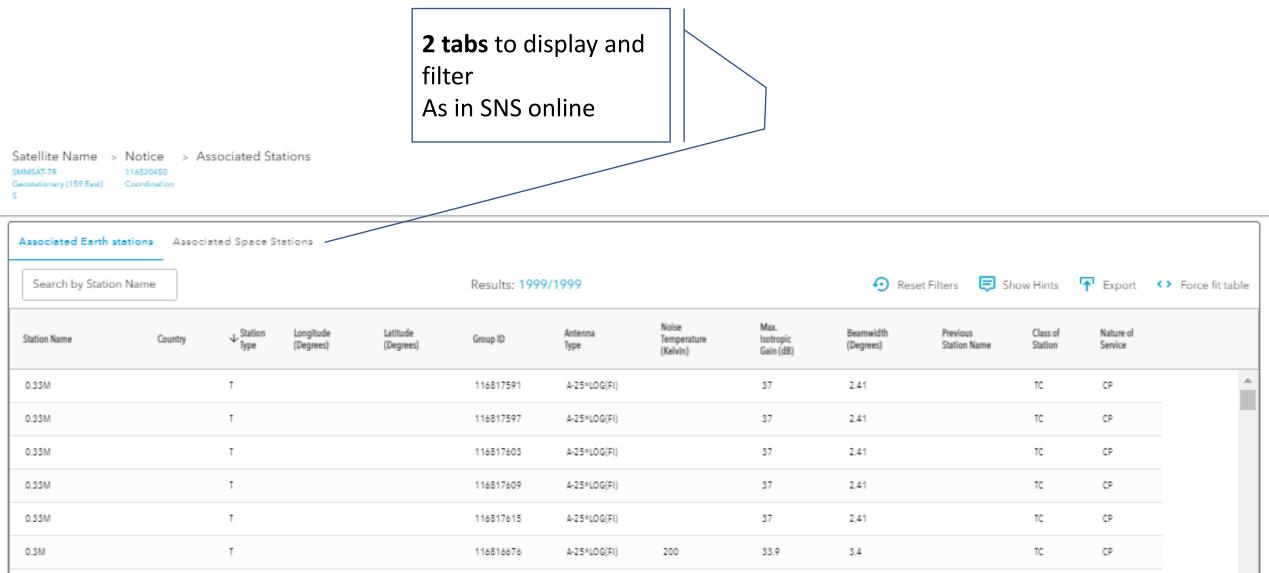
17'700-18'100

filter requirements

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Provision	CA	Δ1/Ι	Freq Band(MHz)	A	В	c	D	E	F	G	н	I.	J	к	L	м	N	0	P	۵	R	s	T	U	۷
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9.7	-	~	_	ARG ARM ARS ARS/ARB AUS AZE	B BEL BLR	CAN CHN CLM CYP CZE	D	E Egy Eth	F F/EUT	G GRC	HOL	I IND INS IRN IRQ ISR	J	KAZ KOR	LAO LUX	MAU MCO MEX MLA MNG	NCG NOR NRU		PAK PNG	QAT	RUS RUS/IK	SNG	THA TUR	UAE UKR USA	VTN
9.41			17'300-21'200 17'700-19'300 17'700-21'200 27'500-28'050 28'500-28'050 28'500-29'500 28'500-31'000 42'500-51'400 81'000-86'000					EGY					J	KOR										UAE	
A30A#7.1			17'300-18'100 😒 17'700-17'800 😒	AUS	BGD	CAN		EGY	F FSM	G	HOL	IND INS	J	KIR KOR			NOR NZL		PNG	QAT	RUS RUS/IK			USA	





NEW: save your 1. In Networks Explorer favorite queries Sign in as TIES user In My Space Explorer 2. Save your filter criteria to My Space Explorer 3. Click on the tab: **My Space Explorer First** Space Explorer (îty BETA | FEEDBACK Ø 2 2 Special Explorer Temporary Explorer My Space Explorer Query Builder Networks Explorer **In Networks** Home > Networks Explorer > List View CUp to latest BR IFIC No 2981 / 04.10.2022 Explorer Identity () \sim Export Show Hints Reset Filters 44 Hide Filters Jave Save Results: 43 Explore Space Networks or Systems by Save your GSO Location Notifying Adm / Satellite Network Notification Notice Date of SNS Notice ID Plan/Non-Plan East (+) or West Notice Type Provision Details Network Org Name Reason Receipt (·) Degrees Space Network System (SNS) BR Space Publications query ß 113590059 S. SIRIUS-SE-2 5.00 G U. RS49 Non-Plan 31.01.2013 Satellite Network Notifying Adr s SIRIUS-5E-2 G U. R\$552 31.01.2013 113593001 5.00 Non-Plan S (Sweden) ÷ 114500015 s SIRIUS-5E-2 5.00 G Ν 11.2 Non-Plan 23.10.2015 Network Organization -112500153 s SIRIUS-SE 5.00 G Ν 11.2 Non-Plan 23.10.2015 Satellite Network Name ÷ \square 11.2 23.10.2015 109500400 5 SIRIUS-P 5.00 G Ν Non-Plan All Non-Plan Only Plan Only

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Non-Plan



My Space Explorer

Then Manage easily your personal queries



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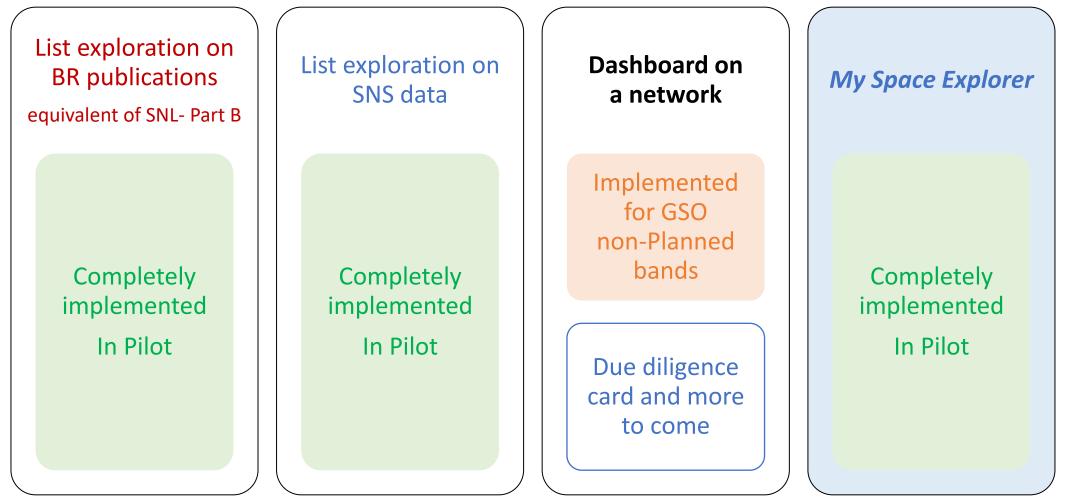
Home > My Space Explorer			C Up to latest BR IFIC No 2981 / 04.10.2022
Use My Space Explorer to save and share bookmarks of qu Only the query (choice of filters) is saved, not the data (use Bookmarks can be shared with TIES users and ITU Staff.			
Q Search bookmark titles	Favorite Bookmarks		
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From Networks Explorer (3)	Sweden in SNS database		
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From Query Builder (0)	From Networks Explorer		
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Sweden in Publication History

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ITU SpaceExplorer – Level of implementation







ITU SpaceExplorer – More features to come







Support Contact: ITUSpaceExplorer@itu.int

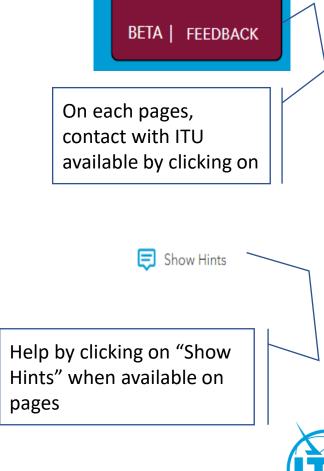
Let us know what you need!

Please give us feedback, so we can implement content that is truly useful and helpful. Thanks!

Need an introductory briefing?

Virtual mini-sessions how to use ITU SpaceExplorer are available. For registration email to: <u>ITUSpaceExplorer@itu.int</u>

-- The ITU SpaceExplorer Team





Thank you!

ITU – Radiocommunication Bureau

Questions to <u>brmail@itu.int</u> or <u>ITUSpaceExplorer@itu.int</u> or <u>veronique.glaude@itu.int</u>

ITU SpaceExplorer Pilot version 0.9.8: https://www.itu.int/go/ITUSpaceExplorer



