



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMMUNICACIONES

© I.T.U.

RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	SC-ODIN	PARTIE PART PARTE	I-S
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	3009 / 14.11.2023
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	CAN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO
		NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	123500133
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			11.08.2023

Notifications reçues au titre de		Notifications received under		Notificaciones recibidas en virtud de lo dispuesto en	
X	Article 11 du Règlement des radiocommunications	X	Article 11 of the Radio Regulations	X	Artículo 11 del Reglamento de Radiocomunicaciones
	Article 5 des Appendices 30 et/ou 30A		Article 5 of Appendices 30 and/or 30A		Artículo 5 de los Apéndices 30 y/o 30A
	Article 8 de l'Appendice 30B		Article 8 of Appendix 30B		Artículo 8 del Apéndice 30B

Pour plus d'informations sur les dispositions réglementaires et l'explication des codes ou symboles utilisés dans cette publication, veuillez consulter la Préface .	For more details on the regulatory provisions and the explanation of the codes or symbols used in this publication, please consult the Preface .	Para más detalles sobre las disposiciones reglamentarias y la explicación de los códigos o símbolos utilizados en esta publicación, sírvase consultar el Prefacio .
--	--	---



国际电信联盟
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات
مكتب الاتصالات الراديوية

© I.T.U.

卫星网络 СПУТНИКОВАЯ СЕТЬ الشبكة الساتلية	SC-ODIN	部分 ЧАСТЬ الجزء	I-S
地球站 ЗЕМНАЯ СТАНЦИЯ الخطوة الأرضية	---	无线电通信局国际频率信息通报 / 日期 ИФИК БР / ДАТА النشرة الإعلامية الدولية للترددات / رقمها وتاريخها	3009 / 14.11.2023
负责主管部门 ОТВЕТСТВЕННАЯ АДМ. الإدارة المسؤولة	CAN	标称经度 НОМИНАЛЬНАЯ ДОЛГОТА خط الطول الاسمي	NGSO
		识别号 ИДЕНТИФИКАЦИОННЫЙ НОМЕР رقم تعرف الهوية	123500133
通信局收到资料的日期 / ДАТА ПОЛУЧЕНИЯ ИНФОРМАЦИИ БЮРО / معلومات استلمها المكتب في			11.08.2023

根据以下条款收到的通知		Заявления, полученные согласно		بطاقات تبليغ مستلمة بموجب	
X	《无线电规则》第11条	X	Статья 11 Регламента радиосвязи	X	المادة 11 من لوائح الراديو
	附录30和/或30A第5条		Статья 5 Приложений 30 и/или 30A		المادة 5 من التذييلين 30 و/أو 30A
	附录30B第8条		Статья 8 Приложения 30B		المادة 8 من التذييل 30B

欲更详细了解本公报资料中使用的规则性条款和代码或符号的说明，请查阅 前言 。	Более подробная информация о регламентарных положениях и разъяснение кодов либо обозначений, используемых в настоящей публикации, содержится в Предисловии .	يرجى الرجوع إلى المقدمة للاطلاع على مزيد من التفاصيل الخاصة بالأحكام التنظيمية وتفسير الرموز والمعطيات المستعملة في هذا القسم.
--	--	--

<p>On trouvera la description des éléments de données utilisés dans les publications dans le document:</p> <ul style="list-style-type: none"> - ItemsDescription_F.pdf - http://www.itu.int/ITU-R/space/brific/legend/ 	<p>The description of the data items used in the publications can be found in the document:</p> <ul style="list-style-type: none"> - ItemsDescription_E.pdf - http://www.itu.int/ITU-R/space/brific/legend/ 	<p>La descripción de los datos empleados en las publicaciones figura en el documento:</p> <ul style="list-style-type: none"> - ItemsDescription_S.pdf - http://www.itu.int/ITU-R/space/brific/legend/
<p>出版物中使用的数据项说明，见文件:</p> <ul style="list-style-type: none"> - ItemsDescription_C.pdf - http://www.itu.int/ITU-R/space/brific/legend/ 	<p>Описание элементов данных, используемых в данной публикации, содержится в документе:</p> <ul style="list-style-type: none"> - ItemsDescription_R.pdf - http://www.itu.int/ITU-R/space/brific/legend/ 	<p>يمكن الاطلاع على وصف عناصر المعطيات المستعملة في المنشورات في الوثيقة:</p> <p style="text-align: center;">ItemsDescription_A.pdf</p> <p>http://www.itu.int/ITU-R/space/brific/legend/</p>

PARTIE I-S / PART I-S / PARTE I-S / 第I-S部分 / ЧАСТЬ I-S / الجزء I-S										
A	A1a Sat. Network	SC-ODIN	A1f1 Notif. adm.	CAN	A1f3 Inter. sat. org.		BR1 Date of receipt	11.08.2023	BR20/BR21 BR IFIC no./part	3009/1
	BR6a/BR6b Id. no.	123500133	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.				

Il est prévu d'exploiter ce système à satellites non OSG dans le cadre d'une mission de courte durée conformément à la Résolution 32 (CMR-19)

This non-GSO satellite system is planned to be operated as short duration mission in accordance with Resolution 32 (WRC-19)

Está previsto que este sistema de satélites no OSG opere como misión de corta duración en los términos de la Resolución 32 (CMR-19)

此non-GSO卫星系统计划按照第32号决议(WRC-19)进行短期任务操作

Данная спутниковая система НГСО планируется к использованию для непродолжительных полетов в соответствии с Резолюцией 32 (ВКР-19)

من المخطط تشغيل هذا النظام الساتلي غير المستقر بالنسبة إلى الأرض كمهمة قصيرة المدة وفقاً للقرار 32 (WRC-19)

Résumé / Summary / Resumen / 綜述 / Резюме / خلاصة

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	C3a Assigned freq. band	BR47 Frequency band (MHz)	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.
UPLINK	R		123692460		25	436.5125 - 436.5375	1	EA	1
DOWNLINK	E		123692461		60	436.495 - 436.555	1	EA	1

A A1a Sat. Network SC-ODIN A1f1 Notif. adm. CAN A1f3 Inter. sat. org. BR1 Date of receipt 11.08.2023 BR20/BR21 BR IFIC no./part 3009/1
 BR6a/BR6b Id. no. 123500133 BR3a/BR3b Provision reference 11.2 N BR2 Adm. serial no. UPLINK R

A1f2 Submitted on behalf

A1g Short Mission Duration Res 32 Y A24a SDM commitment Y A23a Commitment Res 35 N

A4b1 No. of orbital planes 1 A4b2 Ref. body T BR99 Total number of satellites 1

A4b1a Constellation N

A4b3a No. of space stations simult. trans. on Northern Hemisphere A4b3b No. of space stations simult. trans. on Southern Hemisphere

A4b7a Max. sat. rcv. simult. A4b7b Avg. no. of As. E-stn A4b7c Avg. distance

A4b7d1 Excl. zone type A4b7d2 Excl. zone width

A4b6bis Limited or Extended set

Action code	Orbital plane id. no.	A4b1d Orbit set id.	A4b4a Inclination angle	A4b4b No. of satellites in this plane	A4b4c Period	A4b4d Apogee	A4b4g Right asc.	A4b6c Station keeping	A4b6e Specific modelled station	A4b4j Long. asc. node	A4b4m,n,o Sun synchronous		
					A4b4f Min. altitude	A4b4e Perigee	A4b4i Arg. of perigee	A4b6d Repeat period	A4b6f Precession rate	A4b6j Long. tolerance	Y/N	Reference node	Node local time
	1		51.66	1	0-01:33	432.5e0					N		
					414.35e0	414.35e0							

Les renseignements figurant dans le tableau «PHASE» (éléments A.4.b.4.j, A.4.b.4.h et A.4.b.4.l de l'Appendice 4) ne sont pas inclus dans le présent fichier et peuvent être consultés directement dans la base de données mdb, si besoin est.	Information from the "PHASE" table (A.4.b.4.j, A.4.b.4.h and A.4.b.4.l of Appendix 4) is not included in this file and may be consulted directly from the mdb database if needed.	En este archivo no se incluye información del Cuadro «FASE» (A.4.b.4.j, A.4.b.4.h y A.4.b.4.l del Apéndice 4) que, en caso necesario, puede consultarse directamente en la base de datos mdb.
本文件不包括“相位”表（附录4的A.4.b.4.j、A.4.b.4.h和A.4.b.4.l）中的信息，如有需要，可直接从mdb数据库中查询。	Информация из таблицы "ФАЗА" (A.4.b.4.j, A.4.b.4.h и A.4.b.4.l Приложения 4) в этот файл не включена и при необходимости может быть получена непосредственно из базы данных mdb.	معلومات جدول "الطور" (البند A.4.ب.4.ي و A.4.ب.4.ح و A.4.ب.4.ل من التذييل 4) غير مدرجة في هذا الملف ويمكن الحصول عليها مباشرة من قاعدة البيانات mdb إذا لزم الأمر.

A17a Compliance with PFD limit dB(W/(m²·1MHz)) in the band 1164 - 1215 MHz
 A17a.bis a Calculated EPFD value in the band 1610.6 – 1613.8 MHz at RA SDT dB(W/(m²·20 kHz))
 A17a.bis b Calculated EPFD value in the band 1610.6 – 1613.8 MHz at RA VLBI dB(W/(m²·20 kHz))
 A17b2 Calculated aggregate PFD value in the band 5030.0 - 5150.0 MHz dB(W/(m²·150 kHz))
 A17b3 EPFD in the band 4990.0 - 5000.0 MHz dB(W/(m²·10 MHz))
 A17d Mean PFD dB(W/(m²·1 MHz))
 A17e1a Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT dB(W/(m²·1 GHz))
 A17e1b Calculated EPFD value in the band 42.5 - 43.5 GHz at RA SDT dB(W/(m²·500 kHz))
 A17e1c Calculated EPFD value in the band 42.5 - 43.5 GHz at RA VLBI dB(W/(m²·500 kHz))
 A15a EPFD compliance A18a Aircraft earth station commitment
 BR104 Commitment Res 770 N BR103 Demonstration Res 770

BR108 Indication under No. 11.41.2 that efforts have been made to effect coordination with those administrations whose assignments were the basis of the unfavourable findings under No. 11.38, without success N

A A1a Sat. Network SC-ODIN A1f1 Notif. adm. CAN A1f3 Inter. sat. org. BR1 Date of receipt 11.08.2023 BR20/BR21 BR IFIC no./part 3009/1
 BR6a/BR6b Id. no. 123500133 BR3a/BR3b Provision reference 11.2 N BR2 Adm. serial no. UPLINK R

BR109 Confirmation that frequency assignments which operates under No. 4.4 will meet the conditions referred in RoP No. 4.4 §1.6 N

B1a/BR17 Beam designation UPLINK B1b Steerable B2 Emi-Rcp R B3a1 Max. co-polar gain -0.4

B2a1 Transmit only when visible from notified service area B2a2 Min. Elev. Angle

B3c1 Co-polar antenna pattern					
Co-polar ref. pattern	Coef. A	Coef. B			Co-polar rad. diag.
ND-SPACE					

List of orbital planes

ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id. 123692460 BR1 Date of receipt 11.08.2023 C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164

A2a Date of bringing into use as submitted by the Administration 27.07.2023

A2a Date of bringing into use 06.07.2023 A2b Period of valid. 2 A3a Op. agency 034 A3b Adm. resp. B BR16 Value of type C8b A4b7cbis Min. elevation angle

BR96 Start date for 9.1/9.1A 13.09.2022

BR62 Expiry date for bringing into use 13.09.2029 BR63 Confirmed date of bringing into use BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station EA C3a Assigned freq. band 25 C5a Noise temperature 409 B4b5 Peak of pfd

C4b Nature of service CO C6a Polarization type CR C6b Polarization angle

C11a1 Service area no. 1 C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

436.525 MHz

A13 Ref. to Special Sections	C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.
API/A/13165	1 25K0F1DAN	14	-30	5		-38		30	

C7b Carrier frequency of the emissions (25K0F1DAN)

436.525 MHz

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.	C10c2 Ctry	C10d1/C10d2 Cls. / Nat.	C10d3 Max. iso. gain	C10d4 Bmwidth	C10d7 Ant. diameter	C8g1 Max. aggr. pwr.	C8g2 Aggr. bandwidth	C8g3 Transp. bandwidth = Aggr. bandwidth
CCP TEAM SC-FREYA	T S	073W38 24 45N27 27	CAN	1 TA 1 TA CO	18.9 18.9	20.52 20.52				

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
CCP TEAM SC-FREYA	REC-580-6 REC-580-6						

13C Remarks

A A1a Sat. Network SC-ODIN A1f1 Notif. adm. CAN A1f3 Inter. sat. org. BR1 Date of receipt 11.08.2023 BR20/BR21 BR IFIC no./part 3009/1
 BR6a/BR6b Id. no. 123500133 BR3a/BR3b Provision reference 11.2 N BR2 Adm. serial no. DOWNLINK E

B1a/BR17 Beam designation DOWNLINK B1b Steerable B2 Emi-Rcp E B3a1 Max. co-polar gain -0.4

B2a1 Transmit only when visible from notified service area Y B2a2 Min. Elev. Angle 10

B3b1b Applicable PFD will be met by applying the method in Annex 1 of ROP 21.16 Attach. no.

B3c1 Co-polar antenna pattern

Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
ND-SPACE						

List of orbital planes

ALL

B4a3a1 Angle alpha B4a3a2 Angle beta

BR92 Attach. for missing angle alpha/beta

BR7a/BR7b Group id. 123692461 BR1 Date of receipt 11.08.2023 C2c RR No. 4.4 BR97 No. 11.43A BR98 For use in accordance with Res 163/164

A2a Date of bringing into use as submitted by the Administration 27.07.2023

A2a Date of bringing into use 06.07.2023 A2b Period of valid. 2 A3a Op. agency 034 A3b Adm. resp. B BR16 Value of type C8b A4b7cbis Min. elevation angle

BR96 Start date for 9.1/9.1A 13.09.2022

BR62 Expiry date for bringing into use 13.09.2029 BR63 Confirmed date of bringing into use BR64 Date of receipt of 1st Res49

BR14 Special Section

C4a Class of station EA C3a Assigned freq. band 60 B4b5 Peak of pfd

C4b Nature of service CP C6a Polarization type CR C6b Polarization angle

C8d1 Max. tot. peak pwr. -0.4 C8d2 Contiguous bandwidth

C11a1 Service area no. 1 C11a3 Service area diagram

A5/A6 Coordinations/Agreements

C2a1 Assigned frequency

436.525 MHz

A13 Ref. to Special Sections	C7a Design. of emission		C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Attch.	C8c3 Min. pwr dens.	C8c4 Attch.	C8e1 C/N ratio	C8e2 Attch.
	API/A/13165	1	60K0F1DAN	-0.4	-48.1	-4		-51.7		14

C7b Carrier frequency of the emissions (60K0F1DAN)

436.525 MHz

C10b1 Assoc. earth station id.	C10b2 Type	C10c1 Geographical coord.		C10c2 Ctry	C10d1/C10d2 Cls. / Nat.		C10d3 Max. iso. gain	C10d4 Bmwidth	C10d6 Noise temp.	C10d7 Ant. diameter
US & CAN AMATEUR RADIO	T				1	TA CP	14	30	300	
SC-FREYA	S	073W38 24	45N27 27	CAN	1	TA CP	18.9	20.52	300	

C10d5a Co-polar antenna pattern

C10b1 Assoc. earth station id.	Co-polar ref. pattern	Coef. A	Coef. B	Coef. C	Coef. D	Phi1	Co-polar rad. diag.
US & CAN AMATEUR RADIO	REC-580-6						
SC-FREYA	REC-580-6						

A	A1a Sat. Network	SC-ODIN	A1f1 Notif. adm.	CAN	A1f3 Inter. sat. org.		BR1 Date of receipt	11.08.2023	BR20/BR21 BR IFIC no./part	3009/1
	BR6a/BR6b Id. no.	123500133	BR3a/BR3b Provision reference	11.2	N	BR2 Adm. serial no.		DOWNLINK	E	

13C Remarks

C9 Modulation characteristics	C7a Designation of emission 25K0F1DAN
C9a1 Type of modulation	FM
C9a2a Lowest frequency	
C9a2b Highest frequency	
C9a2c Frequency deviation	
C9a3a Freq. deviation of the pre-emphasized signal	
C9a3b Pre-emphasis characteristics	
C9a3c Type of multiplexing	
C9a4a Bit rate	
C9a4b Number of phases	
C9a5a Modulating signal attached (see attch. no.)	
C9a5b Amplitude modulation	
C9a6a Peak-to-peak freq. dev.	
C9a6b Sweep frequency	
C9a6c Energy dispersal waveform	
C9a7 Type of energy dispersal	
C9a8 Other types of modulation (see attch. no.)	
C9a9 TV standard	
BR7a Group id.	123692460

C9 Modulation characteristics	C7a Designation of emission 60K0F1DAN
C9a1 Type of modulation	FM
C9a2a Lowest frequency	
C9a2b Highest frequency	
C9a2c Frequency deviation	
C9a3a Freq. deviation of the pre-emphasized signal	
C9a3b Pre-emphasis characteristics	
C9a3c Type of multiplexing	
C9a4a Bit rate	
C9a4b Number of phases	
C9a5a Modulating signal attached (see attch. no.)	
C9a5b Amplitude modulation	
C9a6a Peak-to-peak freq. dev.	
C9a6b Sweep frequency	
C9a6c Energy dispersal waveform	
C9a7 Type of energy dispersal	
C9a8 Other types of modulation (see attch. no.)	
C9a9 TV standard	
BR7a Group id.	123692461

Figure / Figura / 图 / Рисунок / 1 الشكل

ZONE DE SERVICE
SERVICE AREA
ZONA DE SERVICIO
业务区
Зона обслуживания
منطقة الخدمة

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : UPLINK

Numéro de diagramme GIMS / GIMS diagram number / Número de diagrama GIMS / GIMS图形编号 / Номер диаграммы GIMS / GIMS رقم مخطط : 1

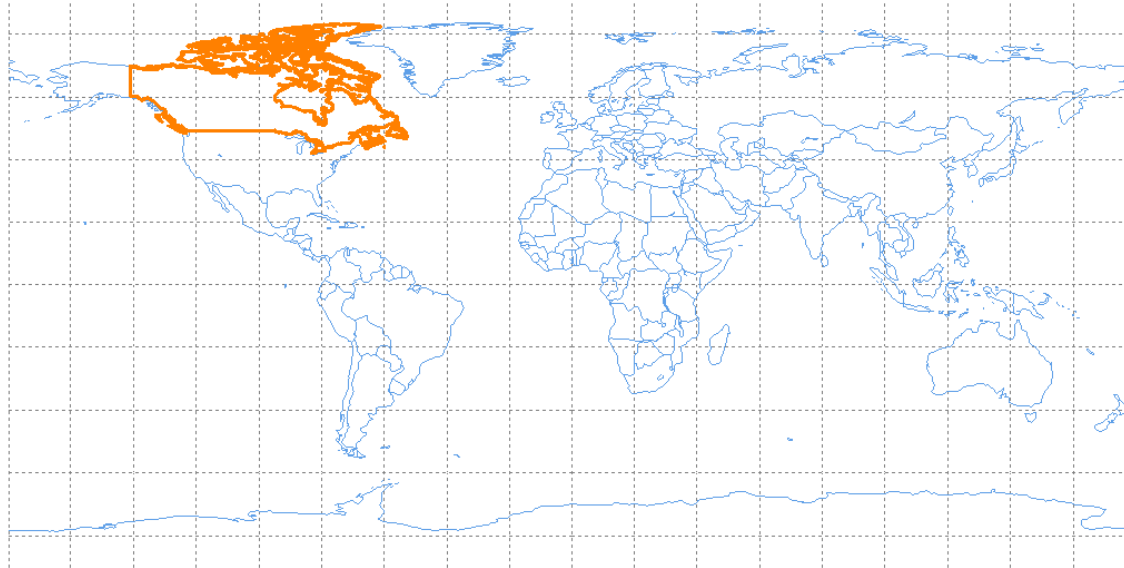


Figure / Figura / 图 / Рисунок / 2 الشكل

ZONE DE SERVICE
SERVICE AREA
ZONA DE SERVICIO
业务区
Зона обслуживания
منطقة الخدمة

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : DOWNLINK

Numéro de diagramme GIMS / GIMS diagram number / Número de diagrama GIMS / GIMS图形编号 / Номер диаграммы GIMS / GIMS رقم مخطط : 1

