BEFORE THE

Federal Communications Commission

WASHINGTON, D.C. 20554

In the Matter of	)	
	)	
Satélites Mexicanos, S.A. de C.V.	)	
	)	File No. _____
Letter of Intent to Access	)	
the U.S. Market Using a Non-U.S. Licensed	)	
L-Band Radionavigation Satellite	)	
Service Satellite at the Nominal 117 W.L.°	)	
Orbital Location	)	

LETTER OF INTENT

Satélites Mexicanos, S.A. de C.V. ("Satmex"), pursuant to Section 25.137 of the Commission's rules and the Commission's *First Space Station Licensing Reform Order*,[1] hereby files this Letter of Intent to use a geostationary ("GSO") satellite under the authority of Papua New Guinea ("PNG") to access the United States market using portions of the L-band at the nominal 117° W.L. orbital location to provide radionavigation satellite service ("RNSS"). In this Letter of Intent, Satmex provides information required by 47 C.F.R. § 25.137 for applications seeking U.S. market access from non-U.S.-licensed spacecraft. Technical information relating to the proposed spacecraft is provided on Schedule S and in narrative form in the associated Technical Annex.

[1] *See Amendment of the Commission's Space Station Licensing Rules and Policies*, 18 FCC Rcd 10760 at ¶294 (rel. May 19, 2003) (the "*First Space Station Licensing Reform Order*").

I. BACKGROUND

Founded in 1989, Satmex is a Mexico-based satellite provider that was acquired by Eutelsat Communications in a transaction that closed on January 2, 2014.[2] Both Satmex and Eutelsat Communications have previously demonstrated their qualifications before the Commission. Currently, all three satellites operated by Satmex are on the Commission's Permitted Space Station List (the "Permitted List").[3] Two satellites operated by Eutelsat Communications satellites are also on the Permitted List, and another Eutelsat entity – Eutelsat America Corp., which, like Satmex, is a subsidiary of Eutelsat Communications – is the licensee of a GSO satellite licensed by the Commission at 172° E.L.[4]

Satmex has a long history and extensive expertise in providing innovative solutions to satisfy the growing demand for communications needs in the Americas. As a wholly-owned subsidiary of Eutelsat Communications, Satmex is part of a constellation consisting of 37 GSO satellites covering Europe, Africa, the Middle East, and large parts of Asia and the Americas. As such, Eutelsat is a provider of satellite-based communications services with a near-global reach.

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[2] The Commission reviewed Eutelsat Communications' acquisition of Satmex pursuant to 47 C.F.R. § 25.137(g) and approved the transaction on Dec. 24, 2013. *See* File No. SAT-PPL-20131120-00137. Eutelsat also markets Satmex's offerings under the trade name "Eutelsat Americas."

[3] The three Satmex satellites included on the Permitted List are Satmex 5, Satmex 6, and Satmex 8.

[4] The two Eutelsat Communications satellites on the Permitted List are the Eutelsat AB-1 and Eutelsat AB-2. The call sign for the satellite operated by Eutelsat America Corp. is S2610.

II. NETWORK ARCHITECTURE

A. Satmex 9 – Satellite Overview

The Satmex 9 satellite – constructed on Boeing's new, all-electric propulsion 702SP bus – is currently scheduled to be launched into GSO orbit at the nominal 117° W.L. orbital location by Space Exploration Technologies Corp.'s ("SpaceX") Falcon 9 launch vehicle in the fourth quarter of 2015. Satmex 9 will be equipped with 48 Ku-band, 36 MHz equivalent transponders.[5] Like the Satmex 8 spacecraft, Satmex 9 will provide extensive coverage of Latin America and will serve Satmex's Latin American customers in the video, telecommunications, and government sectors. Additional information regarding the Satmex 9 spacecraft is provided in the Schedule S and Technical Annex accompanying this market access application.

B. Wide Area Augmentation System ("WAAS") – Background

WAAS is a Federal Aviation Authority ("FAA")-mandated, safety-critical system that enables the U.S. Global Positioning System ("GPS") to meet air navigation performance requirements for enroute, terminal, non-precision approach and precision approach phases of flight. WAAS became operational in 2003 and currently supports aircraft approaches across more than a thousand airports.[6] Currently, the Raytheon Company ("Raytheon") administers the WAAS network based on a prime contract with the FAA. Subsequent to this prime contract with the FAA, Raytheon entered into a subcontract with Satmex on December 12, 2013 to carry the next generation WAAS payload (the "WAAS Payload") onboard Satmex 9.

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[5] Satmex does not seek U.S. market access in the Ku-band; it provides this information regarding Satmex 9's Ku-band transponders only as additional background information for the Commission.

[6] *See "WAAS of the Future: Dual Frequency Operation (DFO) Development*, available at: http://www.faa.gov/about/office_org/headquarters_offices/ato/service_units/techops/navservices/gnss/mobileAll/WAASoftheFuture.pdf (accessed June 15, 2014).

Satmex seeks to access the U.S. market due to its contractual obligation to host the WAAS Payload. The Commission is familiar with WAAS Payloads.[7] The current WAAS architecture involves payloads hosted onboard three satellites: Intelsat's Galaxy-XV at 133° W.L.; Telesat's Anik F1R at 107.3° W.L.; and Inmarsat's 4F3 at 98° W.L. The Commission reviewed and authorized WAAS-enabled hosted payload operations onboard all of these satellites.[8] Satmex 9 is intended as a replacement for the Galaxy-XV, which is nearing its operational end-of-life.

C. WAAS Technical Operations

The satellite segment of the WAAS system in the U.S. to be provided by Satmex will be supported by a network of 38 ground-based, wide-area reference stations (the "WRS Stations") strategically located across the Continental U.S., Alaska, Hawaii, Puerto Rico, Canada, and Mexico. The WRS Stations constantly monitor the signals emitted from the constellation of GPS satellites – operated by the U.S. government – and transmit this information to the ground-based WAAS master stations (the "WMS Stations") via a terrestrial communications network.[9]

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[7] Satmex currently anticipates that providing WAAS services to Raytheon and the FAA will be the only services Satmex 9 provides in the U.S.

[8] *See Lockheed Martin Corporation, Application to Launch and Operate a Geostationary Orbit Space Station in the Radionavigation-Satellite Service at 133° W.L.*, *Order and Authorization*, DA 05-1747, rel. June 23, 2005 ("*Galaxy-XV Payload Application*"); *Lockheed Martin Corporation, Application to Launch and Operate a Geostationary Orbit Space Station in the Radionavigation-Satellite Service at 107.3° W.L., Order and Authorization*, DA 05-2424, rel. Sept. 8, 2005 ("*Anik-F1R Payload Application*"); *Intelsat North America LLC*, Application for Modification of Earth Sation KA25, File Nos. SES-MFS-20080228-00207 & SES-AFS-20080410-00448, DA 08-2730, granted Dec. 18, 2008.

[9] The ground-based segment of the WAAS system described in this Section II.C is operated by Raytheon in conjunction with the FAA. Simultaneous to the filing of the instant application, Raytheon is seeking to modify the existing earth station authorizations covering the WAAS system to add the Satmex 9 satellite as an authorized point of contact. *See* Call Signs KA312 and E980137. Both of these earth stations are operated by another Raytheon subcontractor, Astrium Services Government, Inc. ("Astrium").

The data collected by the WMS Stations is used to generate messages (the "WAAS Messages") correcting and augmenting the content of the original GPS signals. The WAAS Messages are then transmitted to the navigation payloads hosted onboard the orbiting WAAS satellites via a network of ground uplink stations (the "GUS Stations") that operate in the C-band. Finally, the navigation payloads broadcast the WAAS Messages to aircraft in the WAAS coverage area in the L-band.

D. Satellite Frequency Plan

In order to provide the bandwidth required to provide this non-common carrier service to its underlying customer, Satmex proposes to operate Satmex 9 on the following frequencies in the U.S.:

Downlink Frequency (MHz)	Frequency Allocation	Satmex 9 Proposed Use
1564.42-1586.42 (L1)	Aeuronautical Radionavigation Radionavigation-Satellite (space-to-Earth) (space-to-space)	Service Links
1165.45-1187.45 (L5)	Aeuronautical Radionavigation Radionavigation-Satellite (space-to-Earth) (space-to-space)	Service Links
4198-4198.4	Fixed Fixed-Satellite (space-to-Earth)	Telemetry Downlink Beacon
4199.6-4200	Fixed Fixed-Satellite (space-to-Earth)	Telemetry Downlink Beacon[10]

[10] The telemetry downlink beacon is a signal transmitted by Satmex 9 solely for the purposes of antenna alignment and tracking. Based on informal discussions with FCC staff, we do not believe market access is required for these telemetry downlink beacons. In an abundance of caution, however, in the event FCC staff conclude market access is required, Satmex hereby requests such market access.

Uplink Frequency[11] (MHz)	Frequency Allocation	Satmex 9 Proposed Use
6628.27-6650.27	Fixed Fixed-Satellite (Earth-to-space) (space-to-Earth)	Receipt of signals from GUS Stations
6679.42-6701.42	Fixed Fixed-Satellite (Earth-to-space) (space-to-Earth)	Receipt of signals from GUS Stations

A more precise description of the channel plan for Satmex 9 is included in the Schedule S and Technical Annex accompanying this application. Satmex notes that the L-band frequencies it proposes to use are allocated on a co-primary basis for RNSS under the U.S. Table of Allocations.[12] Thus, Satmex does not anticipate requesting any waiver based on its proposed use of the L-band frequencies, nor does it anticipate operation of the WAAS system posing any interference problems to other licensed users of the L-band spectrum.

[11] These frequencies will be used only for receipt of uplinking to Satmex 9 from GUS Stations; all C-band authorizations necessary to uplink from the ground-based WAAS system to Satmex 9 will be obtained by Raytheon or its subcontractor Astrium. It is unclear whether a grant of market access by the Commission is needed for the Satmex 9 spacecraft to *receive* feeder uplink signals from the United States. In the event the Commission concludes that market access is required for the C-band feeder uplinks, Satmex hereby requests that the Commission process this Letter of Intent application as a request for market access for both the L-band service links and C-band feeder uplink frequencies listed herein. Satmex has included sufficient technical information in this Letter of Intent application with respect to the C-band payload on the spacecraft for the Commission to process the C-band payload alongside the L-band payload.

[12] *See* 47 C.F.R. § 2.106. Satmex is aware that Footnote 5.328A of the Table of Allocations conditions the use of the L5 downlink frequencies. However, as explained below, Satmex will operate in accordance with Resolution 609 and not claim interference protection from stations in the aeronautical radionavigation service.

E. Protection of Passive Services, Radio Astronomy Services and Two Degree Spacing – C-band Feeder Uplinks

Satmex is aware that Footnote 5.48 of the Table of Allocations indicates that in the 6425-7075 MHz frequency band, passive microwave sensor measurements are carried out over the oceans.[13] Also, US 342 and Footnote 5.48A indicate that in the 6650-6675.2 MHz frequency band, steps should be taken to protect spectral line observations of the radio astronomy services.[14] Satmex will consider the needs of both the passive and radio astronomy services in its future planning and will comply with all applicable domestic and international requirements when coordinating operations of the WAAS Payload and Satmex 9.

In addition, the Commission has clarified that Section 25.140(b)(2) applies to GSO space station applications for operation in any FSS frequency band.[15] Given that Satmex requests FSS allocated spectrum for its feeder uplinks, Section 25.140(b)(2) is applicable. As such, see page A-5 of the Technical Annex for information regarding the two-degree spacing interference analysis for Satmex 9.

F. Resolution 609 Compliance and U.S. GPS Coordination – L-Band RNSS Downlinks

Satmex is aware that all operators of satellite networks in the RNSS frequency bands are subject to International Telecommunication Union ("ITU") Resolution 609, whereby administrations operating or planning to operate systems in the RNSS bands must cooperate to achieve a level of protection for future aeronautical radionavigation service satellite systems. Specifically, Resolution 609 requires that the equivalent power

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[13] *See* 47 C.F.R. § 2.106 footnote 5.458.

[14] *See* 47 C.F.R. § 2.106 footnote 5.458A and US342.

[15] *See Public Notice, International Bureau Satellite Division Information: Clarification of 47 C.F.R. §25.140(b)(2), Space Station Application Interference Analysis,* Report No. SPB-207, DA 04-1708 (rel. June 16, 2004)*; see also* 47 C.F.R. § 25.140(b)(2).

flux density ("EPFD") produced by all RNSS space stations operating in the 1154-1215 MHz band shall not exceed the aggregate EPFD level of -121.5 dB(W/m^2) in any 1 MHz band.[16]

PNG has notified the Resolution 609 Forum of the planned operations of Satmex 9 and will fully participate and cooperate in required consultation and coordination meetings. In addition, Satmex and PNG are working cooperatively to ensure that PFD levels produced by Satmex 9 are within Recommendation 608, and that Satmex 9 does not negatively impact the aggregate limits for all RNSS systems contemplated by Resolution 609. Satmex will keep the Commission apprised concerning the results of consultation meetings relating to Resolution 609.

In addition to compliance with Resolution 609 procedures, Satmex will also ensure that Satmex 9 will not interfere with the U.S. GPS system in the requested L- band frequencies. The purpose of the WAAS Payload is to provide next-generation services to augment and enhance the U.S. GPS system. As such, Satmex will operate Satmex 9 in conjunction with – and full compatibility with – the U.S. GPS system.

III. GRANT OF THIS APPLICATION WILL SERVE THE PUBLIC INTEREST BY ENSURING THE CONTINUED PROVISION OF WAAS IN THE U.S.

Grant of this application will serve the public interest, convenience, and necessity by facilitating the continued provision of WAAS-enabled navigation services in the U.S. market. The WAAS system vastly improves the accuracy, integrity, and availability of the U.S. GPS network. Specifically, WAAS-enabled aircraft, on average, receive positioning and navigation information with an accuracy of three meters or less.

[16] *See* Resolution 609, a copy of which is available at: http://www.itu.int/md/R00-CR-CIR-0202/e (accessed June 15, 2014).

Operational since 2003, the WAAS system has played a large role in aircraft navigation during the safest period for air travel in the history of the U.S. aviation industry.

The public benefits of the WAAS system are not limited to aviation safety. The positional accuracy of the WAAS system also enables aircraft to reduce separation standards and fly closer together. Thus, airlines are able to offer consumers more flights as well as more direct routes. This results not only in a greater number of flight choices, but also substantial fuel cost savings that are passed on to consumers.

The WAAS Payload developed by Raytheon and hosted onboard Satmex 9 represents the next generation of the WAAS system. Accordingly, favorable and expeditious Commission action on this application will serve the public interest by facilitating the continued provision of a system that has contributed to the safety of millions of air travelers, all while providing a superior aviation experience through increased flight choices and reduced costs.

IV. THE SATMEX 9 LETTER OF INTENT SATISFIES THE COMMISSION'S CRITERIA FOR U.S. MARKET ACCESS

In the *DISCO II Order*, the Commission established two procedures by which a non-U.S. licensed satellite operator can seek authorization to provide service in the United States.[17] In the procedure relevant for Satmex, a non-U.S. space station operator may file a Letter of Intent seeking a ruling as to whether the Commission will permit U.S. market access, demonstrating that the space station meets all applicable Commission

[17] *See Amendment of the Commission's Regulatory Policies to Allow Non-U.S. Licensed Space Stations to Provide Domestic and International Satellite Service in the United States*, 12 FCC Rcd 24094, ¶ 188 (1997) ("*DISCO II Order*"). *See also Amendment of the Commission's Regulatory Policies to Allow Non-U.S. Licensed Space Stations to Provide Domestic and International Satellite Service in the United States*, 15 FCC Rcd 7207, ¶ 5 (1999) ("*DISCO II Recon Order*"); 47 C.F.R. § 25.137.

requirements.[18] In reviewing such a filing, the Commission considers the effect on competition in the United States, spectrum availability, eligibility and operational requirements, and concerns related to national security, law enforcement, foreign policy, and trade.[19]

As discussed in detail below, Satmex satisfies the criteria for obtaining U.S. market access for the Satmex 9 satellite, subject to certain waivers described herein.

A. Effect on Competition in the United States

Where a non-U.S. satellite licensed by a World Trade Organization ("WTO") member country seeks authority to provide a satellite service covered by the WTO Basic Telecommunications Agreement ("WTO Agreement"), the Commission presumes that foreign entry will promote competition in the United States.[20] As noted above, Satmex has relied upon Papua New Guinea's telecommunications regulatory authority, the National Information & Communications Technology Authority ("NICTA"), as its notifying administration with the ITU.[21] PNG is a member of the WTO, and the Commission has previously granted U.S. market access to satellites operating pursuant to an authorization from PNG.[22]

The United States satellite commitments under the WTO Agreement cover fixed satellite-services ("FSS") and mobile satellite-services ("MSS" and collectively with FSS,

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[18] 47 C.F.R. § 25.137(a).

[19] *DISCO II Order* at ¶29.

[20] *Id.*

[21] NICTA will also issue a spectrum license for the Satmex 9 (the "NICTA License"). A copy of the NICTA License will be supplied to the FCC after it has been issued by NICTA. NICTA also intends to register the space object at the United Nations.

[22] *See*, *e.g.*, *Loral Spacecom Corporation*, *Petition for Declaratory Ruling to Add Telstar 13 to the Permitted Space Station List*, *Order*, DA 03-2624 (rel. Aug. 8, 2003).

the "WTO Covered Services").[23] In addition, certain services are explicitly not covered: Direct-To-Home, Digital Audio Radio Service, or Direct Broadcast Satellite Service (the "WTO Noncovered Services").[24] Satmex seeks authority to provide only RNSS, a service which is not explicitly addressed as either a WTO Covered Service or a WTO Noncovered Service and is not covered by the *DISCO II Order*.

Although RNSS is not explicitly covered by the *DISCO II Order*, the Commission should apply a presumption in favor of entry for Satmex 9. In the *DISCO II Order*, the Commission acknowledged that

> market competitive access commitments made by WTO Members under the WTO Basic Telecom Agreement…will help ensure the presence and advancement of competition in the satellite services market and yield the benefits of a marketplace to consumers in the United States and other countries. These benefits include greater availability of satellite services from a larger number of providers, more efficient and innovative services, lower prices, higher quality, and, overall, more choices for users and consumers in the selection of satellite services. Thus, these benefits will further the Commission's goal of promoting a competitive satellite services market in the United States.[25]

The benefits that the Commission expected would accrue from a presumption in favor of entry for WTO Covered Services are precisely the same benefits that will occur if the Satmex 9 satellite is permitted to serve the U.S. market. The WAAS Payload hosted onboard Satmex 9 will facilitate the next-generation of WAAS-enabled services, delivering an innovative, satellite-based service that vastly improves the air transportation experience of millions of consumers traveling in U.S. airspace. Given that two of the three currently operational WAAS Payloads are hosted on satellites licensed by non-U.S.,

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[23] *See DISCO II Order* at ¶30.

[24] *DISCO II Order* at ¶13. Satmex does not seek authority to provide WTO Noncovered Services in the United States.

[25] *DISCO II Order* at ¶39.

WTO-member administrations, the Commission has implicitly already acknowledged the benefits of opening the U.S. market to RNSS services.[26]

B. ECO-Sat Analysis

Although RNSS is not one of the WTO Noncovered Services under the *DISCO II Order*, and is instead much more closely related to the WTO Covered Services, Satmex acknowledges that RNSS was not contemplated at the time of the *DISCO II Order*. Thus, out of an abundance of caution, Satmex provides the following analysis of the effective competitive opportunities for U.S. satellite systems in PNG (the "ECO-Sat Test").

The ECO-Sat Test focuses on whether a satellite's home market provides effective competitive opportunities for U.S.-licensed satellites to serve the foreign market by examining both *de jure* and *de facto* barriers to entry.[27] Furthermore, the Commission considers other factors, such as spectrum availability and legal, financial, and technical qualifications, operating requirements and national security, law enforcement, foreign policy, and trade concerns.[28] The Commission also noted that "it would be necessary to deny an application involving a non-U.S. satellite licensed by a WTO Member on competition grounds only in exceptional circumstances."[29]

Satmex is currently aware of no obstacles to the entry of U.S. providers for the provision of *any* satellite services in PNG. To the contrary, the market for satellite services in PNG is open to foreign carriers and is becoming increasingly competitive.[30]

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[26] ANIK-F1R is licensed by Canada and Inmarsat 4F3 is licensed by the United Kingdom.

[27] *See DISCO II Order* at ¶ 75.

[28] *Id*. at ¶ 15.

[29] *Id*. at ¶ 43.

[30] *See e.g.*, *Papua New Guinea: Linking for Growth*, available at: http://www.oxfordbusinessgroup.com/economic_updates/papua-new-guinea-linking-growth (accessed June 15, 2014).

Thus, although Satmex believes it is unnecessary for the Commission to conduct an ECO-Sat analysis in order to grant Satmex 9 access to the U.S. market, such an analysis would reveal that PNG's market for satellite services provides effective competitive opportunities for U.S. providers.

C. Spectrum Availability

The Commission also considers spectrum availability as a factor in determining whether to allow a foreign-licensed satellite to serve the U.S. market.[31] In doing so, the Commission evaluates whether grant of access would create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

The 1564.42-1586.42 MHz Band (L1) (Downlink). This frequency band is allocated in the U.S. on a co-primary basis to RNSS for downlink operations.[32] As a result, allowing Satmex 9 U.S. market access would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

The 1165.45-1187.45 MHz Band (L5) (Downlink). This frequency band is also allocated in the U.S. on a co-primary basis to RNSS for downlink operations.[33] As a result, allowing Satmex 9 U.S. market access would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

The 4198-4198.4 MHz Band (Telemetry Downlink Beacon). This frequency band is allocated in the U.S. on a co-primary basis for FSS downlink operations. As a result, Satmex's intended use – telemetry downlink beacon, for purposes of antenna alignment and tracking – would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

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[31] *See DISCO II Order* at ¶¶ 149-50.

[32] *See* 47 C.F.R. § 2.106.

[33] *See id*.

The 4199.6-4200 MHz Band (Telemetry Downlink Beacon). This frequency band is allocated in the U.S. on a co-primary basis for FSS downlink operations. As a result, Satmex's intended use – telemetry downlink beacon, for purposes of antenna alignment and tracking – would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

The 6628.27-6650.27 MHz Band (Uplink/Receive-Only). This frequency band is allocated in the U.S. on a co-primary basis to FSS for uplink operations.[34] Satmex 9 will access this frequency band on a receive-only basis for purposes of receiving transmissions of the WAAS signals from the GUS Stations. As a result of these limited, uplink operations, as well as the primary allocation for FSS uplink operations, allowing Satmex 9 U.S. market access would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

The 6679.42-6701.42 MHz Band (Uplink/Receive-Only). This frequency band is also allocated in the U.S. on a co-primary basis to FSS for uplink operations.[35] Satmex 9 will access this frequency band for purposes of receiving transmissions of the WAAS signals from the GUS Stations. As a result of these limited, uplink operations, as well as the co-primary allocation for FSS uplink operations, allowing Satmex 9 U.S. market access would not create the potential for harmful interference with U.S.-licensed satellite and terrestrial systems.

D. ITU Request for Coordination

The Commission's rules allow a non-U.S.-licensed GSO-like satellite application to be placed in a queue and considered before other later-filed applications if the non-

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[34] *See id*.

[35] *See id*.

U.S.-licensed satellite system "has been submitted for coordination to the International Telecommunication Union."[36] PNG filed a request for coordination to the ITU for the Raggiana-18 orbital slot on July 1, 2013.[37] Thus, the Satmex 9 market access application can be considered before later-filed applications of other GSO-like satellite systems.

E. National Security, Law Enforcement, Foreign Policy, and Trade Issues

The Commission noted in its *DISCO II Order* that issues of national security, law enforcement, foreign policy, and trade are likely to arise only in very rare circumstances.[38] The Commission further noted that it would accord deference to the expertise of the Executive Branch in identifying and interpreting issues of this nature.[39] The Satmex 9 market access application raises no such issues on its face. Thus, this element of the Commission's *DISCO II Order* market access analysis is also satisfied.

F. Eligibility and Operational Requirements

Pursuant to Section 25.137 of the Commission's rules, applicants seeking authority to operate with non-U.S. licensed space stations must provide the legal and technical information for the non-U.S. space station required by Part 25 of the Commission's rules, including Section 25.114.[40]

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[36] 47 C.F.R. § 25.137(c)(3). As explained *infra*, Satmex seeks a waiver of Section 25.158 of the Commission's rules in order that Satmex 9 may be considered as a GSO-like satellite system.

[37] Raggiana-18 is the ITU network name of the orbital slot filing at 117 W.L.° A copy of the ITU filing is attached hereto as Attachment A.

[38] *DISCO II Order* at ¶180.

[39] *Id.*

[40] *See* 47 C.F.R. § 25.137(b). *See also DISCO II Order* at ¶189.

1. Legal and Technical Qualifications

The information set forth in this legal narrative, associated attachments, Schedule S, and the accompanying FCC Form 312 demonstrates compliance with the requirements of Section 25.137 and the other applicable Sections of Part 25 of the Commission's rules.

Satmex highlights here certain Part 25 rules that warrant special attention:

(i) Sections 25.137(d)(1) & 25.164(a) – Satellite Construction Milestones

Section 25.137(d)(1) of the Commission's rules requires applicants requesting authority to operate with non-U.S. licensed space stations to demonstrate compliance with satellite construction milestones.[41] The milestones for GSO-like systems are set forth in Section 25.164(a) of the Commission's rules. They are as follows:

> (1) *One year*: Enter into a binding non-contingent contract to construct the licensed satellite system.
>
> (2) *Two years*: Complete the critical design review of the licensed satellite system.
>
> (3) *Three years*: Begin the construction of the satellite.
>
> (4) *Five years*: Launch and operate the satellite.
>
> These milestones are to be measured from the date the license is issued.[42]

On March 13, 2012, Satmex signed a binding non-contingent satellite manufacturing contract with Boeing to manufacture two satellites, including Satmex 9. In addition, the critical design review has been completed and construction of the satellite in the system has commenced. Thus, the first three milestones have already been satisfied. Satmex anticipates that it will satisfy each of the future milestones required under the Commission's rules in a timely manner. Satmex will submit to the Commission the

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[41] 47 C.F.R. § 25.137(d)(1).

[42] 47 C.F.R. § 25.164(a).

requisite information to demonstrate compliance with all future milestones at the appropriate time.[43]

(ii) Sections 25.137(d)(4) & 25.165 – Posting of Bond

Section 25.137(d)(4) of the Commission's rules requires a bond to be posted where an applicant seeks to communicate with non-U.S. licensed satellites that are not in orbit and operating.[44] For GSO-like systems, the bond is typically in the amount of $3 million and must be posted within a short time following issuance of the U.S. authorization.[45] The party posting the bond, however, may reduce the amount of the bond by $1 million each time the space station licensee successfully meets a milestone.[46] As noted above, Satmex has already satisfied the first three construction milestones. Satmex will submit a copy of the satellite manufacturing contract with Boeing at a later date and will file a request for a reduction in the bond at that time.

2. Technical Waiver Requests

(i) Section 25.158 – Consideration of GSO-like satellite applications

Section 25.158(a) of the Commission's rules defines the term "GSO-like satellite system" as a "GSO satellite designed to communicate with earth stations with directional antennas. Examples of GSO-like satellite systems are those which use earth stations with antennas with directivity towards the satellites, such as FSS, and MSS feeder links which use GSO satellites."[47] The Commission further clarified that GSO-like satellite systems "are not NGSO-like satellite systems within the meaning of Section 25.157(a)," which

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[43] *See, e.g.,* 47 C.F.R. § 25.164(d) & (e).

[44] 47 C.F.R. § 25.137(d)(4).

[45] *Id. See also* 47 C.F.R. § 25.164(a)(2).

[46] 47 C.F.R. § 25.137(d)(4). *See also* 47 C.F.R. § 25.165(d).

[47] 47 C.F.R. § 25.158(a). *See also First Space Station Licensing Reform Order* at ¶21.

define NGSO-like satellite systems to include "[a]ll GSO MSS satellite systems, in which the satellites are designed to communicate with earth stations with omni-directional antennas."[48] The Commission has also noted that NGSO-like satellite systems generally cannot operate on the same spectrum without causing unacceptable interference to each other, and as a result, a band segmentation approach is preferable for such applicants.[49]

Satmex 9, like other RNSS satellites, is designed to communicate with earth stations using omni-directional L-band antennas. Thus, to the extent necessary, Satmex requests a waiver of Section 25.158 in order that the application for U.S. market access for Satmex 9 may be treated as a GSO-like satellite application. First, as noted above, Satmex proposes receive-only operations in C-band spectrum allocated to FSS for its feeder uplinks. In the *First Space Station Licensing Reform Order*, the Commission adopted a first-come, first-serve procedure for applications for feeder links to GSO spacecrafts.[50] Thus, Satmex requests that the Commission consider that this portion of the application be processed on a first-come, first-served basis.[51]

In addition, Satmex also requests authority to operate in the L1 and L5 frequency bands for its service downlinks. Since the L-band earth station antennas that receive signals from the WAAS Payload would be omni-directional, this L-band portion of the market access application does not technically meet the requirement of "directionality" necessary for treatment as a GSO-like satellite application.[52] Thus, Satmex seeks a waiver

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[48] 47 C.F.R. § 25.158(a) and 47 C.F.R. § 25.157(a)(2). *See also id.* To the extent necessary, Satmex also requests a waiver of Section 25.157 for the reasons described herein.

[49] *First Space Station Licensing Reform Order at ¶22.*

[50] *Id.* at ¶¶125-130.

[51] *See* Footnote 11 *supra*.

[52] *See* 47 C.F.R. § 25.158(a). *See also First Space Station Licensing Reform Order at ¶21.*

of this requirement so that the L-band portion of the application may also be processed on a first-come, first-served basis like the C-band portion.

The Commission has granted similar waiver requests in the past based on applications from RNSS satellite systems.[53] Good cause exists for the Commission to also grant a waiver in this case.[54] Satmex proposes downlink operations in the same frequencies in which the U.S. GPS System is currently operating. Thus, all operations in the L-band will be fully compatible with the U.S. GPS System. As the sole purpose of seeking U.S. market access for Satmex 9 is to facilitate the introduction of the next generation WAAS system that will augment and enhance the U.S. GPS System, WAAS Payload operations will be conducted in close conjunction and coordination with all U.S. GPS System stakeholders.

Moreover, future satellite systems – which also must also be compatible with the U.S. GPS System – would not be prevented from using these bands. Finally, the Commission has acknowledged that the presence of the U.S. GPS System and the mandates of Resolution 609 constrains its ability to engage in band segmentation in these frequencies.[55] Thus, Satmex respectfully requests that the Commission grant the waiver request and process the L-band portion of the market access application on a first-come, first-served basis like the C-band portion of the application.

(ii) Section 25.131(j)– Receive-Only Earth Stations

Section 25.131(j)(1) of the Commission's rules requires receive-only earth stations operating with non-U.S. licensed space stations to file an FCC Form 312 requesting a

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[53] *See Galaxy-XV Payload Application* at ¶15. *See also Anik-F1R Payload Application* at ¶7.

[54] 47 C.F.R. § 1.3. *See also WAIT Radio v. FCC*, 418 F.2d 1153, 1157 (D.C. Cir. 1969) (Waiver is appropriate when grant "would better serve the public interest than strict adherence to the general rule.").

[55] *See Galaxy-XV Payload Application* at ¶15. *See also Anik-F1R Payload Application* at ¶7.

license or modification to operate such a station. Satmex anticipates that millions of users will receive GPS transmissions; thus, individual licensing of receive-only GPS terminals would be burdensome and impractical. As such, Satmex hereby requests a waiver of Section 25.131(j)(1) of the Commission's rules to allow GPS users across the U.S. to receive WAAS-enhanced GPS signals from the WAAS Payload hosted onboard Satmex 9.

Good cause exists for the Commission to grant this waiver request. Grant of the waiver request would facilitate the ability of GPS users to receive from the WAAS Payload enhanced signals vastly improving the positional accuracy of GPS. During this process, Satmex 9 would simply retransmit the WAAS data controlled by the FAA – provided via Raytheon, under contract to the FAA – and provide additional capabilities for the U.S. and FAA-administered GPS and WAAS systems. The Commission has previously granted a similar request made by Inmarsat, and the request made here by Satmex is nearly identical in substance.[56]

Like Inmarsat, Satmex seeks this waiver not only to facilitate the continued provision of WAAS services in the U.S., but also because it is in the best position to seek such a waiver, given the vast, dispersed nature of millions of GPS users. Strict application of the licensing requirement in this context would not only frustrate the ability of GPS users to receive enhanced signals, it would also place great administrative strain on the Commission. In addition to (i) allowing millions of navigation devices to receive enhanced GPS signals and (ii) preventing the imposition of an enormous administrative burden on the Commission, grant of the instant waiver request will permit operations

[56] *See Inmarsat Hawaii Inc. Petition for Waiver of Section 25.131(j) of the Commission's Rules*, FCC File No. SES-MSC-20100415-00483, granted July 13, 2010.

solely on a receive-only basis which is fully coordinated with the U.S. GPS System. Thus, grant of the waiver would not result in the risk of harmful interference into any licensed or unlicensed spectrum.

For the reasons set forth herein, Satmex respectfully requests that the Commission waive Section 25.131(j) of the Commission's rules to permit GPS terminals to receive transmissions from the WAAS Payload onboard Satmex 9 via the L-band without obtaining individual licenses to do so.

(iii) Section 25.210(f) – Frequency Reuse Requirements (C-band)

Section 25.210(f) of the Commission's rules requires that FSS space stations employ full frequency re-use by either polarization or spatial discrimination. As this rule applies to the C-band uplink of the Satmex 9 RNSS payload – which operates in an FSS frequency allocation – Satmex hereby requests a waiver of Section 25.210(f). As discussed in Section A.10 of the Technical Annex, Satmex plans to (i) efficiently use spectrum resources and (ii) operate in a little-used portion of the C-band. Thus, good cause exists to grant Satmex a waiver of this requirement. Please refer to Section A.10 of the Technical Annex for a detailed discussion of frequency reuse requirements.

(iv) Section 25.210(i)(1) – Cross-Polarization Requirements (C-band)

Section 25.210(i)(1) of the Commission's rules requires that FSS space station antennas must be designed to provide a cross-polar isolation ("XPI") of at least 30 dB within the primary coverage area. As this rule applies to the C-band uplink of the Satmex 9 RNSS payload – which operates in an FSS frequency allocation – Satmex hereby requests a waiver of Section 25.210(i)(1).

As explained in Section A.9 of the Technical Annex, the shortfall in XPI for the C-band satellite receive antenna of the Satmex 9 RNSS payload will have no impact on the interference to or from other networks and systems. Thus, good cause exists to grant Satmex a waiver of this rule section. Please refer to Section A.9 of the Technical Annex for a detailed discussion of cross-polarization requirements.

V. CONCLUSION

As demonstrated herein and in all the materials with which this legal narrative is associated, Satmex fully satisfies the Commission's requirements under the *DISCO II Order* for U.S. market access. Moreover, subject to a limited number of waiver requests, Satmex 9 fully complies with the Commission's Part 25 rules. Thus, grant of this market access application will serve the public interest, convenience and necessity. Satmex respectfully requests that the Commission act swiftly to grant this application in order that Satmex can facilitate the rollout of the next generation of WAAS services in the U.S. in a timely manner.

Respectfully submitted,

SATMEX

By: */s/ Hector Fortis*
Hector Fortis
Director, International Regulatory

June 17, 2014

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ATTACHMENT A

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	**RAGGIANA-18**		**SECTION SPÉCIALE Nº SPECIAL SECTION No. SECCIÓN ESPECIAL N.º** **CR/C/3415**
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	**---**		**BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA** **2757 / 12.11.2013**
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE **PNG**	**LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL** **117 W**		**NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN** **113520165**
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			**01.07.2013**

Cette demande de coordination, reçue par le Bureau des radiocommunications en vertu du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et est publiée conformément au numéro 9.38. Elle est subordonnée au type de coordination indiqué dans la colonne de gauche par un X dans la case pertinente.	This request for coordination, received by the Radiocommunication Bureau pursuant to No. 9.30 of the Radio Regulations, has been examined under Nos. 9.35 and 9.36 and is published in accordance with No. 9.38. It is subject to the form of coordination indicated in the left-hand column by an X in the relevant box	Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto Nº 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los N^{os} 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.

Type de coordination mentionné dans le Tableau I / Form of coordination referred to in Table I / Forma de coordinación mencionada en el cuadro I				
X	9.7	Conformément aux numéros **9.50** à **9.52** du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de communiquer leur décision à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous.	In accordance with Nos. **9.50-9.52** of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.	De conformidad con los N^{os} **9.50-9.52** del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro I a continuación que comuniquen su decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.
	9.7A			
	9.7B			
	AP30#7.1			
X	AP30A#7.1			
	RS539			
	RS33#3			
Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II				
	9.11	Les Administrations, énumérées ou non-énumérées dans le Tableau II ci-après, qui n'acceptent pas la demande de coordination au titre des numéros **9.11** à **9.14**, **9.21** et **RS33#2.1**, sont priées de communiquer leurs observations à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous. Toute Administration qui ne réagira pas au titre du numéro **9.52** avant cette date limite sera considérée comme n'étant pas défavorablement influencée et, dans les cas couverts par les numéros **9.11** à **9.14** et **RS33#2.1**, les dispositions des numéros **9.48** et **9.49** s'appliqueront.	Administrations listed or not listed in Table II below, which do not agree to the request for coordination under Nos. **9.11** to **9.14**, **9.21** and **RS33#2.1** are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. **9.52** within this deadline shall be regarded as unaffected and, in the cases of Nos. **9.11** to **9.14** and **RS33#2.1**, the provisions of Nos. **9.48** and **9.49** shall apply.	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los N^{os} **9.11** a **9.14**, **9.21** y **RS33#2.1** que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el Nº **9.52** dentro del plazo señalado, no está afectada y, en el caso de los N^{os} **9.11** a **9.14** y **RS33#2.1**, se aplicarán las disposiciones de los N^{os} **9.48** y **9.49**
	9.12			
	9.12A			
X	9.13			
	9.14			
	9.21/A			
	9.21/B			
	9.21/C			
	RS33#2.1			

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	**12.03.2014**

国际电信联盟
无线电通信局

МЕЖДУНАРОДНЫЙ СОЮЗ ЭЛЕКТРОСВЯЗИ
БЮРО РАДИОСВЯЗИ

الاتحاد الدولي للاتصالات
مكتب الاتصالات الراديوية

卫星网络 СПУТНИКОВАЯ СЕТЬ الشبكة الساتلية	**RAGGIANA-18**	特节编号 СПЕЦИАЛЬНАЯ СЕКЦИЯ № القسم الخاص رقم	**CR/C/3415**
地球站 ЗЕМНАЯ СТАНЦИЯ المحطة 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	**2757 / 12.11.2013**
负责主管部门 ОТВЕТСТВЕННАЯ АДМ. الإدارة المسؤولة	**PNG**	标称经度 НОМИНАЛЬНАЯ ДОЛГОТА خط الطول الاسمي **117 W**	识别号 ИДЕНТИФИКАЦИОННЫЙ НОМЕР رقم تعرف الهوية **113520165**
通信局收到资料的日期 / ДАТА ПОЛУЧЕНИЯ ИНФОРМАЦИИ БЮРО / معلومات استلمها المكتب في			**01.07.2013**

无线电通信局依据无线电规则第 9.30 款收到该协调要求，已经根据第 9.35 和 9.36 款进行了审议，并根据第 9.38 款予以公布。需根据左栏用 X 指示的相关方框内的协调方式进行协调。	Настоящий запрос о координации, полученный Бюро радиосвязи согласно п. 9.30 Регламента радиосвязи, был изучен в соответствии с пп. 9.35 и 9.36 и публикуется в соответствии с п. 9.38. К нему применяется тип координации, отмеченный в левом столбце знаком X в соответствующей графе.	استلم مكتب الاتصالات الراديوية طلب التنسيق هذا بموجب الرقم 30.9 من لوائح الراديو، وتم تفحصه بموجب الرقمين 35.9 و36.9، وهو ينشر طبقاً للرقم 38.9. ويخضع الطلب لنوع التنسيق المشار إليه بالرمز X في المكان المناسب من العمود الأيسر.

表一中所述的协调方式/ Тип координации, упомянутый в Таблице I / نوع التنسيق المذكور في الجدول I

X	9.7	根据无线电规则第**9. 50–9. 52**款，要求下列表一中注明的主管部门在下述截止日期前，将其决定通知负责主管部门和通信局。	В соответствии с пп. **9.50–9.52** Регламента радиосвязи администрациям, включенным в Таблицу I, ниже, следует сообщить свое решение ответственной администрации и Бюро до указанной ниже предельной даты.	طبقاً للأرقام من **50.9** إلى **52.9** في لوائح الراديو، يرجى من الإدارات المحددة في الجدول I أدناه أن تبلغ قرارها إلى الإدارة المسؤولة وإلى المكتب قبل الموعد النهائي المحدد أدناه.
	9.7A			
	9.7B			
	AP30#7.1			
X	AP30A#7.1			
	RS539			
	RS33#3			

表二中所述的协调方式 / Тип координации, упомянутый в Таблице II / نوع التنسيق المذكور في الجدول II

	9.11	不同意根据第**9. 11**至 **9. 14**、**9. 21款**和**RS33第2. 1**段的协调要求的已列入或没有列入表二中的主管部门，要求他们在下述截止日期前，将其意见通知负责主管部门和通信局。任何未根据第**9. 52**款在截止日期前做出答复的主管部门，将视为不受影响，而且，在第**9. 11** 至 **9. 14**款和**RS33第2. 1**段的情况下，第**9. 48** 和 **9. 49**款适用。	Администрациям, включенным или не включенным в Таблицу II, ниже, которые высказывают несогласие с запросом о координации согласно пп. **9.11–9.14**, **9.21** и **RS33#2.1**, следует направить свои замечания ответственной администрации и Бюро до указанной ниже предельной даты. Любая администрация, не представившая ответа согласно п. **9.52** до этой предельной даты, будет считаться незатронутой и в случаях пп. **9.11–9.14** и **RS33#2.1** будут применяться положения пп. **9.48** и **9.49**.	يرجى من جميع الإدارات المدرجة أو غير المدرجة في الجدول II التالي التي لا تقبل طلب التنسيق بموجب الأرقام من **11.9** إلى **14.9** والرقم **21.9** والفقرة **1.2** من القرار **33** أن تبلغ تعليقاتها إلى الإدارة المسؤولة وإلى المكتب قبل الموعد النهائي المحدد أدناه. وكل إدارة لا تتصرف بموجب الرقم **52.9** قبل هذا الموعد النهائي تعتبر غير متأثرة تأثراً غير مؤات، والحالات التي تغطيها الأرقام من **11.9** إلى **14.9** والفقرة **1.2** من القرار **33** ينطبق عليها أحكام الرقمين **48.9** و**49. 9**.
X	9.11A			
	9.12			
	9.12A			
X	9.13			
	9.14			
	9.21/A			
	9.21/B			
	9.21/C			
	RS33#2.1			

做出决定的截止日期 / ПРЕДЕЛЬНАЯ ДАТА ДЛЯ ПРИНЯТИЯ РЕШЕНИЯ / الموعد النهائي لاتخاذ القرار **12.03.2014**

Tableau I /Table I /Cuadro I /表一 /Таблица I / الجدول I				
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Résumé des conditions régissant la coordination 协调要求概述	Summary of coordination requirements Сводные потребности в координации	Resumen de los requisitos de coordinación موجز بمتطلبات التنسيق
X	9.7	ARS/ARB, B, CAN, CHN, CTI/RAS, CYP, E, EGY, F/ESA, F, G, GRC, HOL, I, IND, ISR, J, KOR, LUX, MEX, MLA, NIG, NOR, PAK, QAT, RUS/IK, RUS, S, UAE, USA		
	9.7A			
	9.7B			
	AP30#7.1			
X	AP30A#7.1	BLZ, BOL, CAN, CHN, CLM, D, EQA, F, IND, ISR, PRU, USA, VEN		
	RS539			
	RS33#3			

Tableau II /Table II /Cuadro II /表二 /Таблица II / II الجدول				
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1) 可能受影响的主管部门(仅供参考，见第 9.36.1款)	Potentially affected administrations (for information only, see No. 9.36.1) Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1) إدارات يحتمل أن تتأثر تأثراً غير مؤات (انظر الرقم 1.36.9، على سبيل الاطلاع فقط)
	9.11			
X	9.11A			
	9.12			
	9.12A			
	X 9.13	CAN, CHN, D/GLS, D, F/ESA, F/GLS, F, G, I/GLS, I, IND, J, USA		
	9.14			
	9.21/A[1]			
	9.21/B[1]			
	9.21/C[1]			
	RS33#2.1			

[1] 9.21/A, 9.21/B et 9.21/C – au titre du numéro 9.21, administrations ayant des réseaux OSG, des réseaux non-OSG et des stations de Terre, respectivement.
[1] 9.21/A, 9.21/B and 9.21/C – Under No. 9.21, administrations with GSO networks, Non-GSO networks and terrestrial stations, respectively.
[1] 9.21/A, 9.21/B y 9.21/C – De conformidad con el Nº 9.21, administraciones con redes OSG, redes no OSG y estaciones terrestres, respectivamente.
[1] 9.21/A, 9.21/B 和 9.21/C – 根据第9.21款, 分别为有对地静止卫星轨道网络、非对地静止卫星轨道网络和地面站的主管部门
[1] 9.21/A, 9.21/B и 9.21/C – в соответствии с п. 9.21 администрации, имеющие сети ГСО, сети НГСО и наземные станции, соответственно.
[1] 9.21/A و9.21/B و9.21/C – بموجب الرقم 21.9، إدارات لها شبكات مستقرة بالنسبة إلى الأرض وشبكات غير مستقرة بالنسبة إلى الأرض ومحطات للأرض على التوالي.

On trouvera la description des éléments de données utilisés dans les publications dans le document: - ItemsDescription_F.pdf - http://www.itu.int/ITU-R/space/brific/legend/	The description of the data items used in the publications can be found in the document: - ItemsDescription_E.pdf - http://www.itu.int/ITU-R/space/brific/legend/	La descripción de los datos empleados en las publicaciones figura en el documento: - ItemsDescription_S.pdf - http://www.itu.int/ITU-R/space/brific/legend/
出版物中使用的数据项说明，见文件： - ItemsDescription_C.pdf - http://www.itu.int/ITU-R/space/brific/legend/	Описание элементов данных, используемых в данной публикации, содержится в документе: - ItemsDescription_R.pdf - http://www.itu.int/ITU-R/space/brific/legend/	يمكن الاطلاع على وصف عناصر المعطيات المستعملة في المنشورات في الوثيقة: ItemsDescription_A.pdf http://www.itu.int/ITU-R/space/brific/legend/

A | *A1a* Sat. Network: RAGGIANA-18 | *A1f1* Notifying adm.: PNG | *A1f3* Inter. sat. org. | *BR1* Date of receipt: 01.07.2013 | *BR20/BR21* BR IFIC no./part: 2757/

BR6a/BR6b Id. no.: 113520165 | *BR3a/BR3b* Provision reference: 9.6 C | *BR2* Adm. serial no.

Recouvrement des coûts / Cost recovery / Recuperación de costes / 成本回收 / Возмещение расходов / استرداد التكاليف

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)			BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
CEUF	R		113665081		A-----	50000	6425	-	6725	9.7	6	EC	5	30
CEUL	R		113665059		A-----	300000	6425	-	6725	9.7	1	ED, EK	1	2
			113665060		A-----	300000	6425	-	6725	9.7	1	ED, EK	1	2
			113665061		A-----	300000	6425	-	6725	9.7	1	EK	1	1
			113665062		A-----	300000	6425	-	6725	9.7	1	EK	1	1
			113665063		A-----	300000	6425	-	6725	9.7	1	EC	1	1
			113665064		A-----	300000	6425	-	6725	9.7	1	EK	1	1
KA1UP	R		113665099		A-----	125000	27500	-	28500	9.7	8	EC	2	16
			113665100		A-----	125000	27500	-	28500	9.7	8	EC	3	24
			113665101		A-----	125000	27500	-	28500	9.7	8	EC	2	16
			113670056		A-----	125000	28500	-	29500	9.13,9.7	8	EC	2	16
			113670057		A-----	125000	29500	-	30000	9.7	4	EC	2	8
			113670058		A-----	125000	28500	-	29500	9.13,9.7	8	EC	3	24
			113670059		A-----	125000	29500	-	30000	9.7	4	EC	3	12
			113670060		A-----	125000	28500	-	29500	9.13,9.7	8	EC	2	16
			113670061		A-----	125000	29500	-	30000	9.7	4	EC	2	8
KA2UP	R		113665102		A-----	125000	27500	-	28500	9.7	8	EC	2	16
			113665103		A-----	125000	27500	-	28500	9.7	8	EC	3	24
			113665104		A-----	125000	27500	-	28500	9.7	8	EC	2	16
			113670062		A-----	125000	28500	-	29500	9.13,9.7	8	EC	2	16
			113670063		A-----	125000	29500	-	30000	9.7	4	EC	2	8
			113670064		A-----	125000	28500	-	29500	9.13,9.7	8	EC	3	24
			113670065		A-----	125000	29500	-	30000	9.7	4	EC	3	12
			113670066		A-----	125000	28500	-	29500	9.13,9.7	8	EC	2	16
			113670067		A-----	125000	29500	-	30000	9.7	4	EC	2	8
KUR	R		113665083		A-----	50000	13750	-	14000	9.7	5	EC	3	15
			113665084		A-----	50000	13800	-	14000	9.7	4	EC	3	12
			113665085		A-----	50000	13800	-	14000	9.7	4	EC	5	20
			113665086		A-----	50000	13750	-	14000	9.7	5	EC	1	5
			113665087		A-----	50000	13800	-	14000	9.7	4	EC	3	12
			113665088		A-----	50000	13800	-	14000	9.7	4	EC	4	16
KUR2	R		113665089		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	3	18
			113665090		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	3	18
			113665091		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	5	30
			113665092		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	3	18
			113665093		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	3	18
			113665094		A-----	50000	14500	-	14800	9.7,A30A#7.1	6	EC	4	24
CEDF	E		113665082		A-----	50000	3400	-	3700	9.7	6	EC	5	30
KA1DN	E		113665105		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	2	2

A | *A1a* Sat. Network: RAGGIANA-18 | *A1f1* Notifying adm.: PNG | *A1f3* Inter. sat. org.: | *BR1* Date of receipt: 01.07.2013 | *BR20/BR21* BR IFIC no./part: 2757/

BR6a/BR6b Id. no.: 113520165 | *BR3a/BR3b* Provision reference: 9.6 C | *BR2* Adm. serial no.:

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)			BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
			113665106		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	1	1
			113665107		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	2	2
			113670068		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	2	6
			113670069		A-----	125000	18200	-	18700	9.7	4	EC	2	8
			113670070		A-----	125000	18700	-	19700	9.13,9.7	8	EC	2	16
			113670071		A-----	125000	19700	-	20200	9.7	4	EC	2	8
			113670072		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	1	3
			113670073		A-----	125000	18200	-	18700	9.7	4	EC	1	4
			113670074		A-----	125000	18700	-	19700	9.13,9.7	8	EC	1	8
			113670075		A-----	125000	19700	-	20200	9.7	4	EC	3	12
			113670076		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	2	6
			113670077		A-----	125000	18200	-	18700	9.7	4	EC	2	8
			113670078		A-----	125000	18700	-	19700	9.13,9.7	8	EC	2	16
			113670079		A-----	125000	19700	-	20200	9.7	4	EC	2	8
			113695210		N-----	125000	17700	-	17825		1	EC	2	2
			113695211		N-----	125000	17825	-	18200		3	EC	2	6
			113695212		N-----	125000	18200	-	18700		4	EC	2	8
			113695213		N-----	125000	18700	-	19700		8	EC	2	16
KA2DN	E		113665108		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	2	2
			113665109		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	3	3
			113665110		A-----	125000	17700	-	17825	9.7,A30A#7.1	1	EC	2	2
			113670080		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	2	6
			113670081		A-----	125000	18200	-	18700	9.7	4	EC	2	8
			113670082		A-----	125000	18700	-	19700	9.13,9.7	8	EC	2	16
			113670083		A-----	125000	19700	-	20200	9.7	4	EC	2	8
			113670084		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	3	9
			113670085		A-----	125000	18200	-	18700	9.7	4	EC	3	12
			113670086		A-----	125000	18700	-	19700	9.13,9.7	8	EC	3	24
			113670087		A-----	125000	19700	-	20200	9.7	4	EC	3	12
			113670088		A-----	125000	17825	-	18200	9.7,A30A#7.1	3	EC	2	6
			113670089		A-----	125000	18200	-	18700	9.7	4	EC	2	8
			113670090		A-----	125000	18700	-	19700	9.13,9.7	8	EC	2	16
			113670091		A-----	125000	19700	-	20200	9.7	4	EC	2	8
KUT	E		113665095		A-----	50000	10950	-	11200	9.7	5	EC	5	25
			113665096		N-----	50000	10950	-	11200		5	EC	5	25
KUT2	E		113665097		A-----	50000	11450	-	11700	9.7	5	EC	5	25
			113665098		N-----	50000	11450	-	11700		5	EC	5	25
L1E1	E		113665065		A-----	2097	1574.3715	-	1576.4685	9.13,9.7	1	EN	1	1
			113665066		A-----	20547	1565.1465	-	1585.6935	9.13,9.7	1	EN	1	1
			113665067		A-----	2097	1574.3715	-	1576.4685	9.13,9.7	1	EN	1	1
			113665068		A-----	20547	1565.1465	-	1585.6935	9.13,9.7	1	EN	1	1
L1E2	E		113665069		A-----	2097	1574.3715	-	1576.4685	9.13,9.7	1	EN	1	1
			113665070		A-----	20547	1565.1465	-	1585.6935	9.13,9.7	1	EN	1	1
			113665071		A-----	2097	1574.3715	-	1576.4685	9.13,9.7	1	EN	1	1

SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص

A	*A1a* Sat. Network	RAGGIANA-18	*A1f1* Notifying adm.	PNG	*A1f3* Inter. sat. org.		*BR1* Date of receipt	01.07.2013	*BR20/BR21* BR IFIC no./part	2757/	
BR6a/BR6b Id. no.	113520165		*BR3a/BR3b* Provision reference	9.6	C		*BR2* Adm. serial no.				

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)	BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
			113665072		A-----	20547	1565.1465 - 1585.6935	9.13,9.7	1	EN	1	1
L5E1	E		113665073		A-----	20547	1166.1765 - 1186.7235	9.13,9.7	1	EN	1	1
			113665074		A-----	20547	1166.1765 - 1186.7235	9.13,9.7	1	EN	1	1
			113665075		A-----	2097	1175.4015 - 1177.4985	9.13,9.7	1	EN	1	1
			113665076		A-----	2097	1175.4015 - 1177.4985	9.13,9.7	1	EN	1	1
L5E2	E		113665077		A-----	20547	1166.1765 - 1186.7235	9.13,9.7	1	EN	1	1
			113665078		A-----	20547	1166.1765 - 1186.7235	9.13,9.7	1	EN	1	1
			113665079		A-----	2097	1175.4015 - 1177.4985	9.13,9.7	1	EN	1	1
			113665080		A-----	2097	1175.4015 - 1177.4985	9.13,9.7	1	EN	1	1

BR57 Category	C2
BR56 Total number of units	950

A	*A1a* Sat. Network	RAGGIANA-18	*A1f1* Notifying adm.	PNG	*A1f3* Inter. sat. org.		*BR1* Date of receipt	01.07.2013	*BR20/BR21* BR IFIC no./part	2757/	
BR6a/BR6b Id. no.	113520165		*BR3a/BR3b* Provision reference	9.6	C		*BR2* Adm. serial no.				

On trouvera le résumé de la transaction contenant les caractéristiques détaillées de la présente Section Spéciale CR/C dans le document: CRC3415_T.pdf	The transaction summary containing the detailed characteristics of the present Special Section CR/C can be found in the document: CRC3415_T.pdf	El resumen de la transacción, en el que se incluyen las características detalladas de la presente Sección Especial CR/C, figura en el documento: CRC3415_T.pdf
包含本CR/C特节详细特性的资料处理概要见以下文件： CRC3415_T.pdf	Со сводкой о транзакции, содержащей подробные характеристики настоящей Специальной секции CR/C, можно ознакомиться в документе: CRC3415_T.pdf	يمكن الاطلاع على موجز المحضر الذي يضم الخصائص التفصيلية للقسم الخاص الحالي CR/C في الوثيقة: CRC3415_T.pdf

NOTES DE L'ADMINISTRATION

NOTE 1

Les renseignements concernant les faisceaux de réception et d'émission KA1UP, KA2UP, KA1DN et KA2DN sont représentatifs de multiples faisceaux identiques, orientables chacun de façon indépendante au-dessus de la Terre visible, qui peuvent équiper l'engin spatial qui sera exploité conformément à la présente publication.

NOTE 2

La station spatiale peut être configurée de façon à ne pas utiliser de répéteurs à un seul changement de fréquence, si bien que le concept de gain de transmission ne s'applique pas dans ce cas.

NOTES BY THE ADMINISTRATION

NOTE 1

The information indicated for the receive and transmit KA1UP, KA2UP, KA1DN and KA2DN beams are representative of multiple identical beams, independently steerable over the visible Earth, which may equip the spacecraft which will operate under the current publication.

NOTE 2

The space station may be configured so as not to use simple-frequency-changing transponders and therefore the concept of transmission gain is not applicable in this case.

NOTAS DE LA ADMINISTRACIÓN

NOTA 1

La información indicada para los haces de recepción y de emisión KA1UP, KA2UP, KA1DN y KA2DN representa múltiples haces idénticos, orientables de manera independiente sobre la parte visible de la Tierra, que pueden equipar el vehículo espacial que funcionará en virtud de la publicación actual.

NOTA 2

La estación espacial puede configurarse de forma que no utilice transpondedores de simple cambio de frecuencia y, por consiguiente, no es aplicable en este caso el concepto de ganancia de transmisión.

主管部门的注解

注解 1

此处有关 KA1UP、KA2UP、KA1DN 和 KA2DN 空间站收发波束的信息，对于可装备按现有申报运行的航天器的跨可见地球独立指向的多个相同波束，具有代表性。

注解 2

空间台站的配置可不使用简单变频转发器，因此在此情况下，发射增益概念不适用。

ПРИМЕЧАНИЯ АДМИНИСТРАЦИИ

ПРИМЕЧАНИЕ 1

Представленная здесь информация для лучей приема и передачи KA1UP, KA2UP, KA1DN и KA2DN космической станции является типовой для многих идентичных лучей, независимо управляемых над видимой поверхностью Земли, которыми может быть оснащен космический аппарат, который будет работать в рамках существующей заявки на регистрацию.

ПРИМЕЧАНИЕ 2

Космическая станция может иметь такую конфигурацию, что простые ретрансляторы – преобразователи частоты не используются, и, следовательно, понятие усиления передачи в данном случае не применяется.

ملاحظات من الإدارة

الملاحظة 1

المعلومات المقدمة هنا بشأن حزم الاستقبال والإرسال KA1UP وKA2UP وKA1DN وKA2DN هي معلومات تمثل الحزم المتطابقة المتعددة التي يمكن توجيهها بشكل مستقل على الجزء المرئي من سطح الأرض والتي يمكن أن تزوَّد بها المركبة الفضائية التي ستعمل في إطار المنشور الحالي.

الملاحظة 2

يمكن تشكيل المحطة الفضائية بحيث لا تستخدم المرسلات المستجيبة البسيطة المغيرة للتردد، وعليه فإن مفهوم كسب الإرسال لا ينطبق في هذه الحالة.

NOTE 3 **NOTE 3** **NOTA 3**

注解 3 **ПРИМЕЧАНИЕ 3** **الملاحظة 3**

DIAGRAMME DE RAYONNEMENT DE L'ANTENNE DE LA STATION TERRIENNE UT1
UT1 EARTH STATION ANTENNA RADIATION DIAGRAM
DIAGRAMA DE RADIACIÓN DE LA ANTENA DE LA ESTACIÓN TERRENA UT1
地球站天线辐射方向图UT1
ДИАГРАММА НАПРАВЛЕННОСТИ АНТЕННЫ ЗЕМНОЙ СТАНЦИИ UT1
مخطط الإشعاع لهوائي المحطة الأرضية UT1

Gain maximal Maximum Gain Ganancia máxima 最大增益 Максимальное усиление الكسب الأقصى (dBi)	Gain minimal Minimum Gain Ganancia mínima 最小增益 Минимальное усиление الكسب الأدنى (dBi)	Angle par rapport à l'axe principal Off-axis angle Ángulo con relación al eje 轴外角 Внеосевой угол الزاوية من المحور الرئيسي بالدرجات
7	**-2**	**15° ≤ θ < 180°**
4	**-3**	**10° ≤ θ < 15°**
2	**-4.5**	**5° ≤ θ < 10°**
0	**-7.5**	**0° ≤ θ < 5°**

Figure / Figura / 图 / Рисунок / 1 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

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

Gmax: 34 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 2 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

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

Gmax: 34 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : GLOBAL (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 3 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

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

Gmax: 11 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

Figure / Figura / 图 / Рисунок / 4 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA1DN

Gmax: 50 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

Figure / Figura / 图 / Рисунок / 5 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA1UP

Gmax: 50 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : GLOBAL (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 6 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA2DN

Gmax: 40 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

Figure / Figura / 图 / Рисунок / 7 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA2UP

Gmax: 40 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : GLOBAL (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 8 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

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

Gmax: 37 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

CR/C/3415

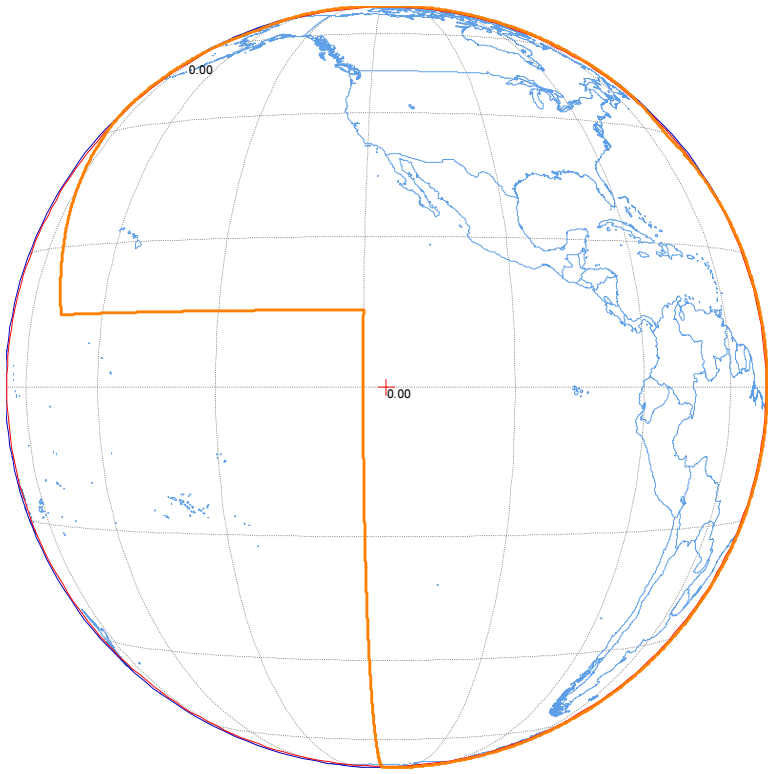
Figure / Figura / 图 / Рисунок / 9 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE
SPACE STATION RECEIVING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL
空间台站接收天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الاستقبال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KUR2

Gmax: 37 dBi



Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

CR/C/3415

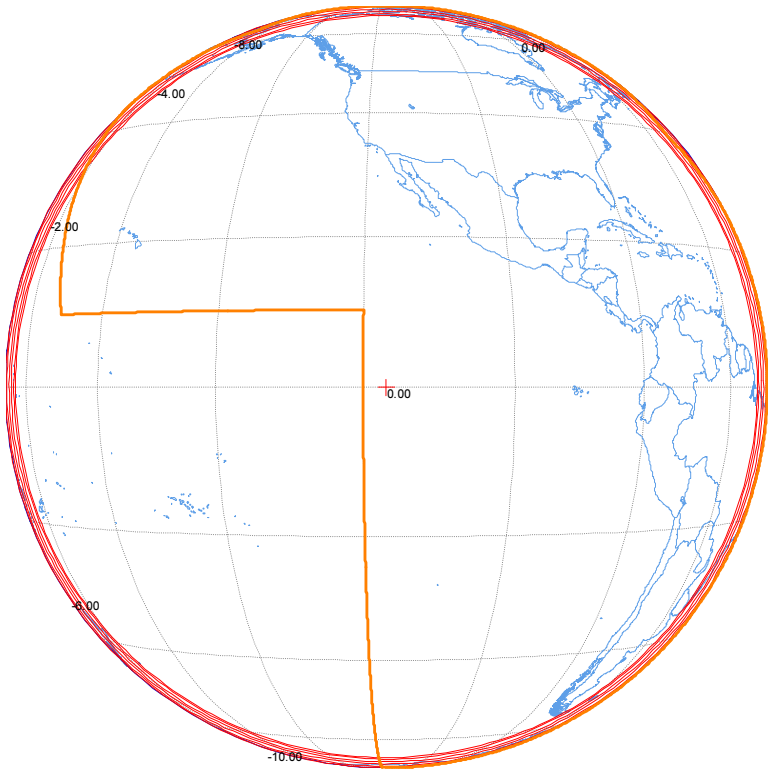
Figure / Figura / 图 / Рисунок / 10 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

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

Gmax: 37 dBi



Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

CR/C/3415

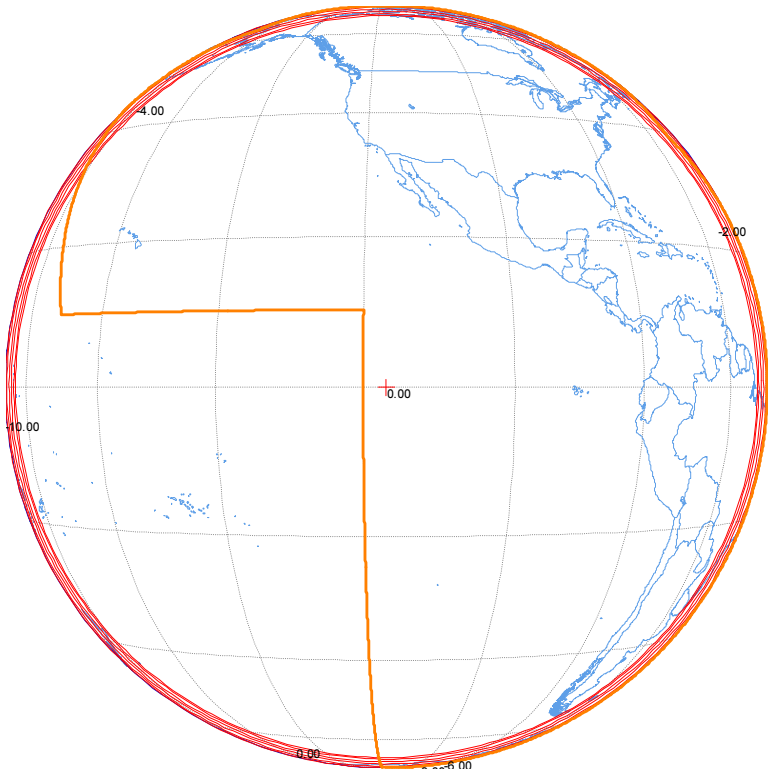
Figure / Figura / 图 / Рисунок / 11 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KUT2

Gmax: 37 dBi



Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XR2 (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 12 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L1E1

Gmax: 15.6 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 13 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L1E2

Gmax: 15.6 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 14 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L5E1

Gmax: 15.6 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

CR/C/3415

Figure / Figura / 图 / Рисунок / 15 الشكل

ZONE DE SERVICE ET CONTOURS DE GAIN DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE
SPACE STATION TRANSMITTING ANTENNA GAIN CONTOURS AND SERVICE AREA
ZONA DE SERVICIO Y CONTORNOS DE GANANCIA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL
空间台站发射天线增益等值线和业务区
ЗОНА ОБСЛУЖИВАНИЯ И КОНТУРЫ УСИЛЕНИЯ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ
منطقة الخدمة وأكفة الكسب لهوائي الإرسال للمحطة الفضائية

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L5E2

Gmax: 15.6 dBi

Zone de service / Service area / Zona de servicio / 业务区 / Зона обслуживания / منطقة الخدمة : XVE (No. 01)

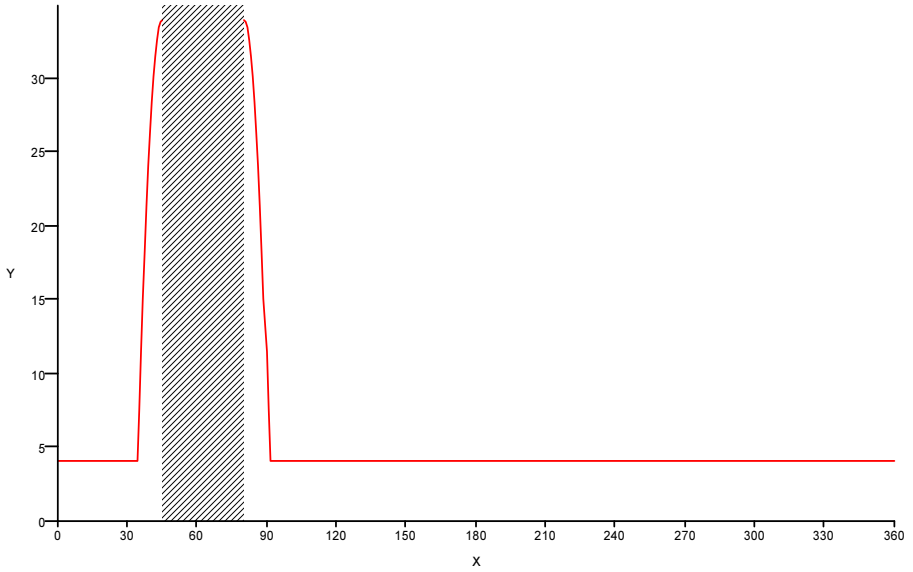
CR/C/3415

Figure / Figura / 图 / Рисунок / 16 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站发射天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

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



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

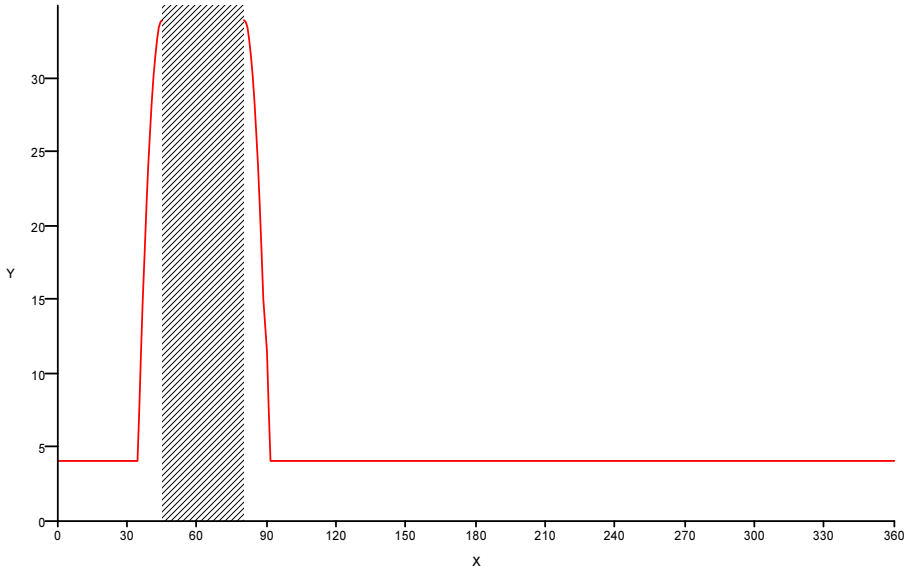
CR/C/3415

Figure / Figura / 图 / Рисунок / 17 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站接收天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الاستقبال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

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



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

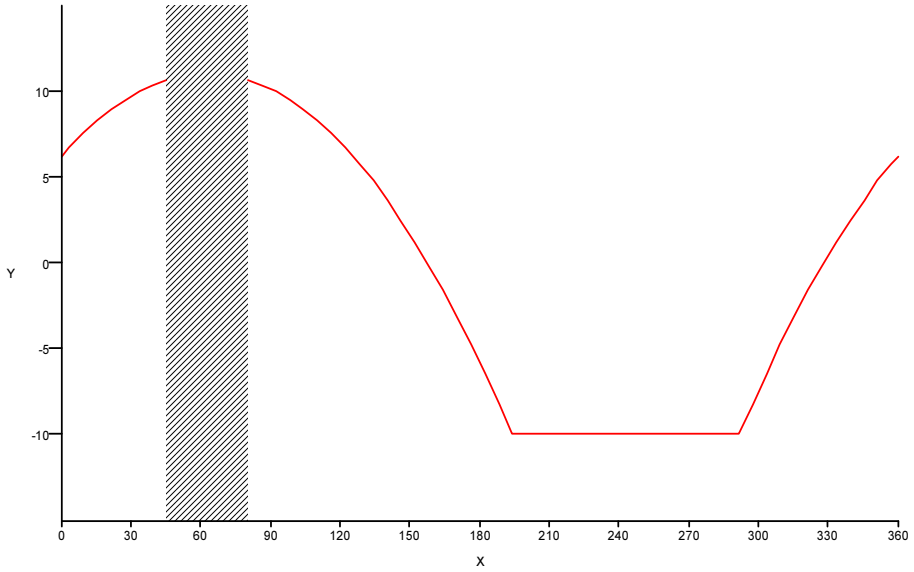
CR/C/3415

Figure / Figura / 图 / Рисунок / 18 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站接收天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الاستقبال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

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



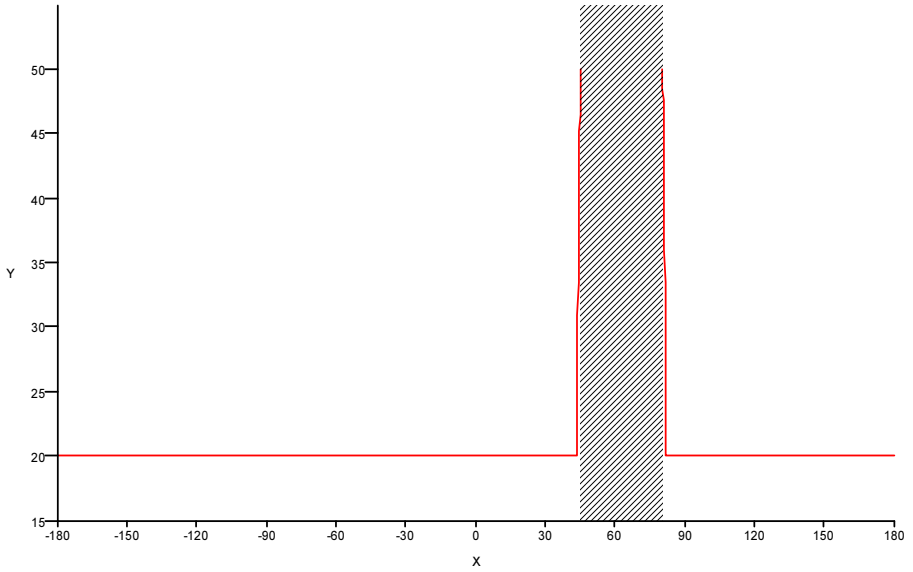
X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

Figure / Figura / 图 / Рисунок / 19 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站发射天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA1DN



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

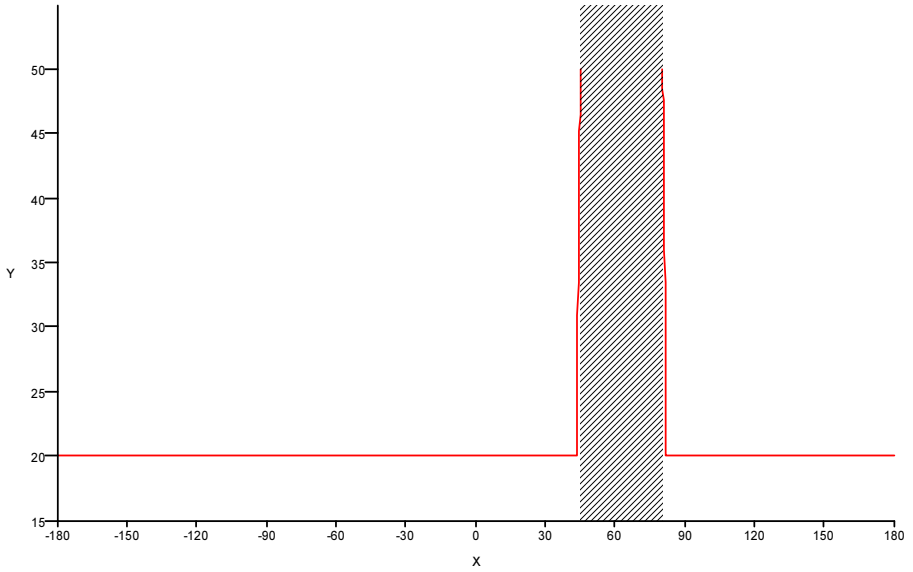
CR/C/3415

Figure / Figura / 图 / Рисунок / 20 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站接收天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الاستقبال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA1UP



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

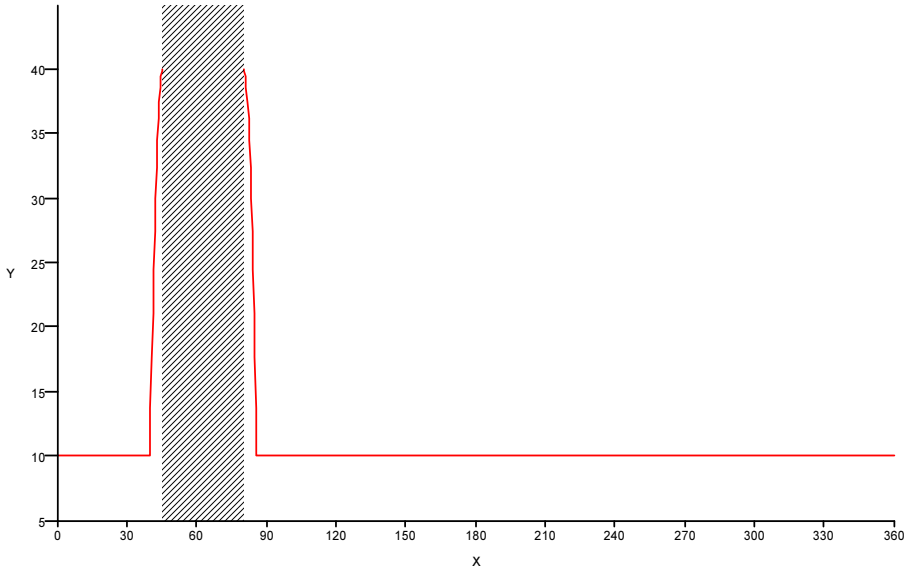
CR/C/3415

Figure / Figura / 图 / Рисунок / 21 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站发射天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA2DN



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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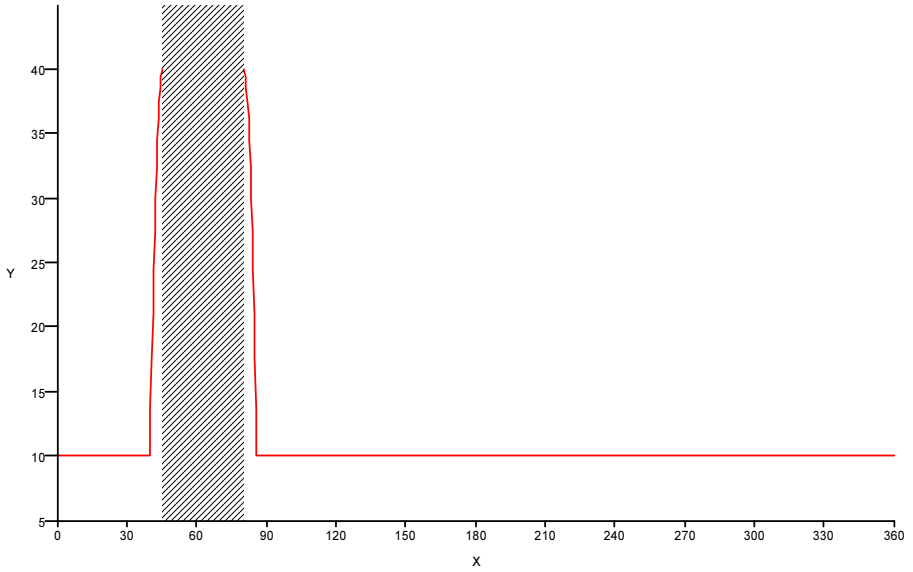
Figure / Figura / 图 / Рисунок / 22 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站接收天线估算增益
РАСЧЕТНОЕ УСИЛЕНИЕ ПРИЕМНОЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الاستقبال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KA2UP



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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Figure / Figura / 图 / Рисунок / 23 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA RECEPTORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
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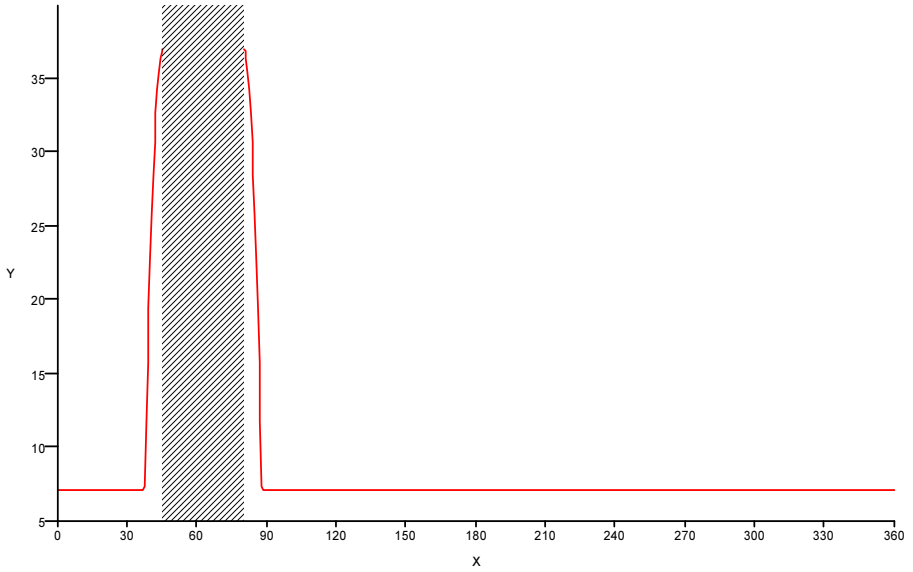
الكسب المقدر لهوائي الاستقبال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

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



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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Figure / Figura / 图 / Рисунок / 24 الشكل

GAIN ESTIME DE L'ANTENNE DE RECEPTION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION RECEIVING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
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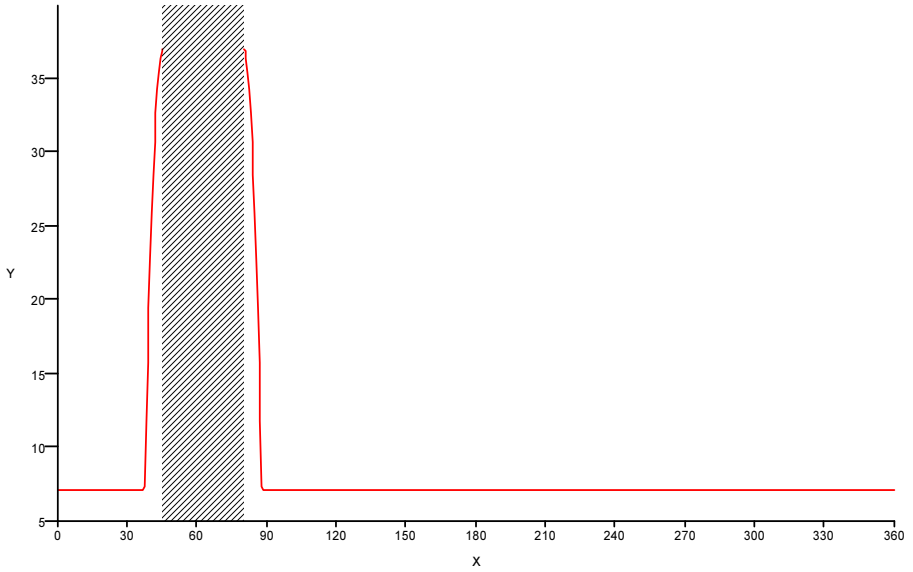
RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KUR2



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
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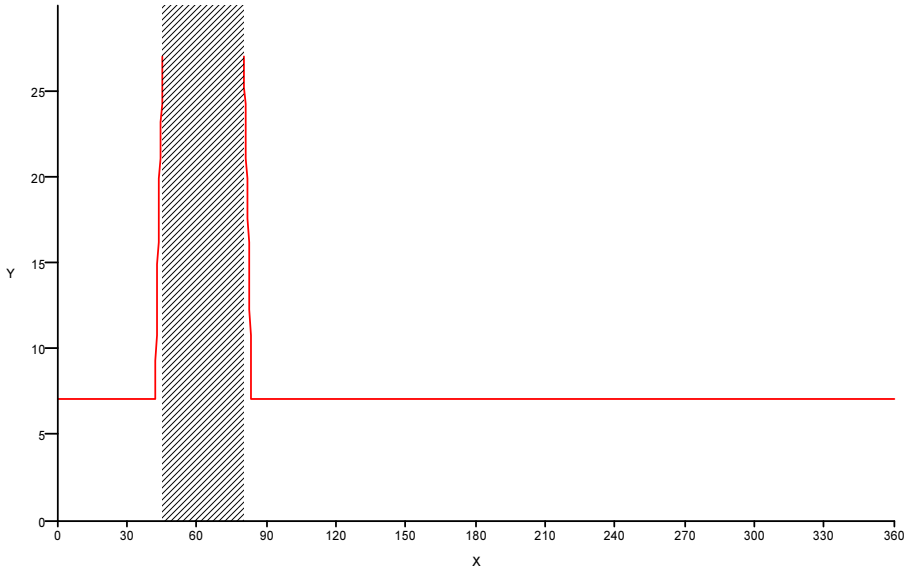
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

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



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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Figure / Figura / 图 / Рисунок / 26 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
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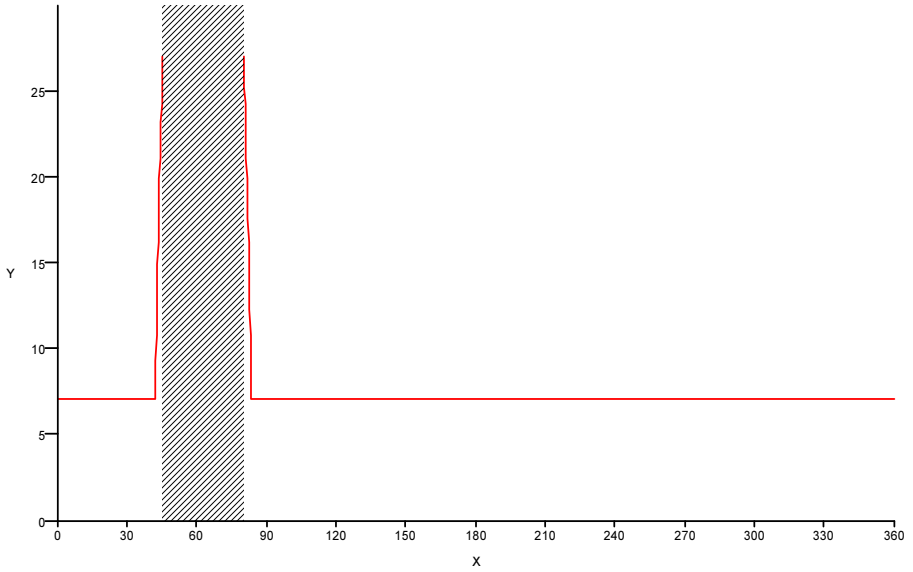
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : KUT2



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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Figure / Figura / 图 / Рисунок / 27 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
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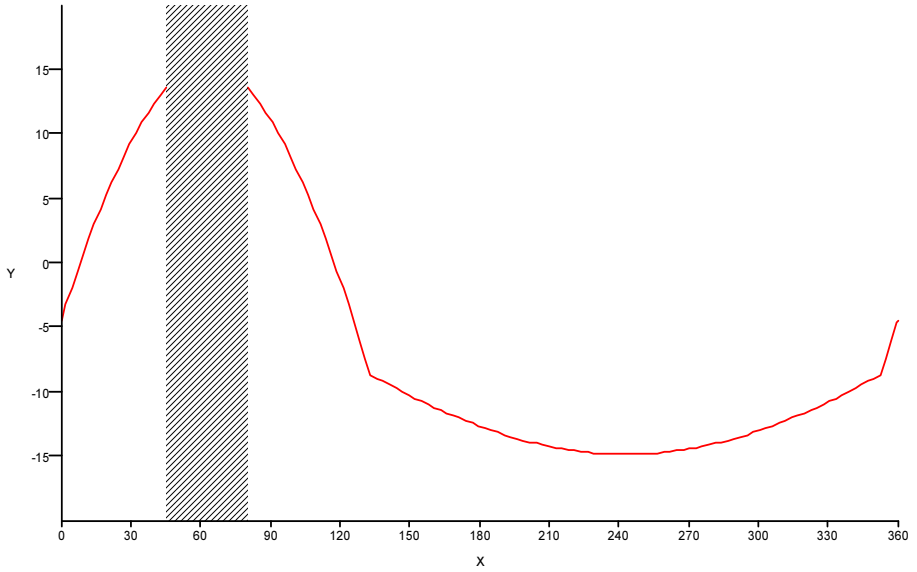
РАСЧЕТНОЕ УСИЛЕНИЕ ПЕРЕДАЮЩЕЙ АНТЕННЫ КОСМИЧЕСКОЙ СТАНЦИИ В НАПРАВЛЕНИИ ОРБИТЫ ГЕОСТАЦИОНАРНЫХ СПУТНИКОВ
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L1E1



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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Figure / Figura / 图 / Рисунок / 28 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
对地静止卫星轨道方向的空间台站发射天线估算增益
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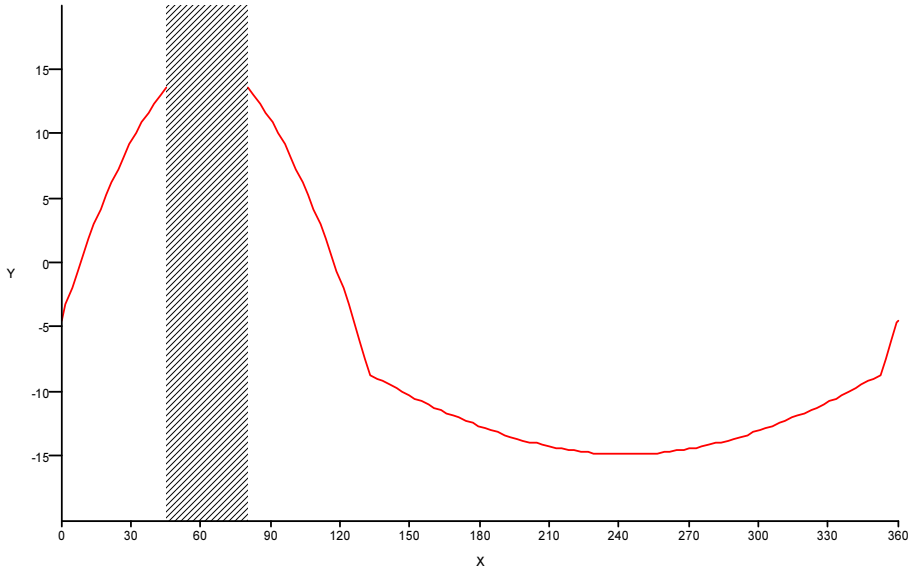
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L1E2



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

CR/C/3415

Figure / Figura / 图 / Рисунок / 29 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
GANANCIA ESTIMADA DE LA ANTENA TRANSMISORA DE LA ESTACION ESPACIAL EN EL SENTIDO DE LA ORBITA DE LOS SATELITES GEOESTACIONARIOS
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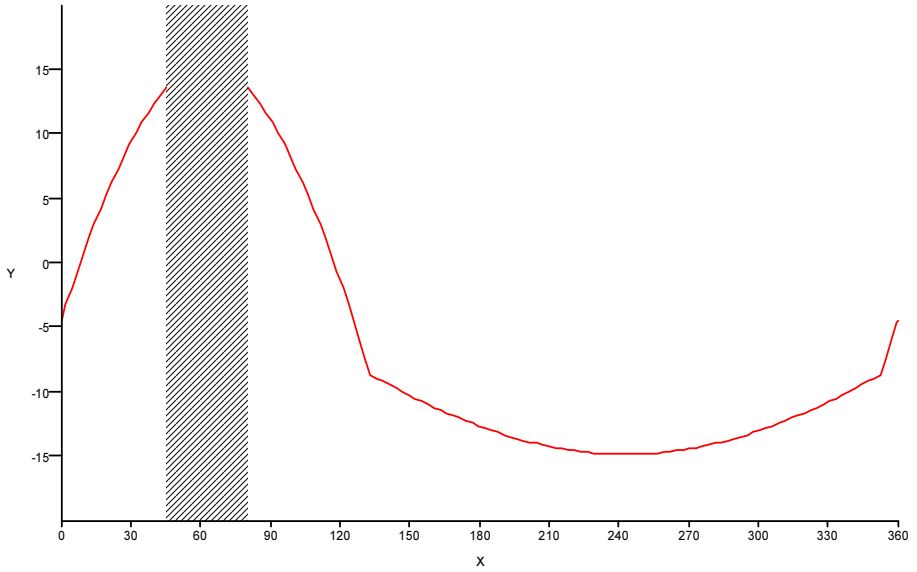
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L5E1



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

CR/C/3415

Figure / Figura / 图 / Рисунок / 30 الشكل

GAIN ESTIME DE L'ANTENNE D'EMISSION DE LA STATION SPATIALE DANS LA DIRECTION DE L'ORBITE DES SATELLITES GEOSTATIONNAIRES
ESTIMATED GAIN OF THE SPACE STATION TRANSMITTING ANTENNA IN THE DIRECTION OF THE GEOSTATIONARY SATELLITE ORBIT
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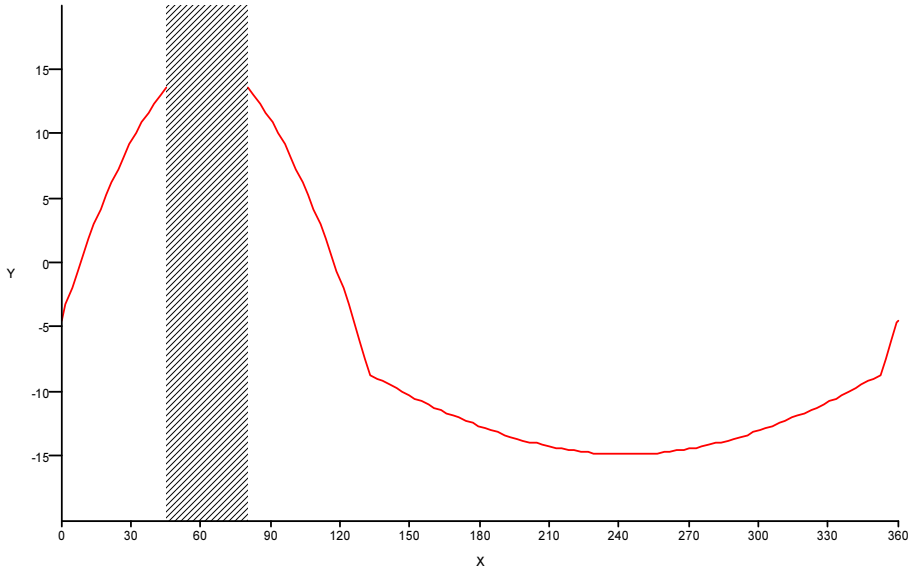
الكسب المقدر لهوائي الإرسال للمحطة الفضائية في اتجاه مدار السواتل المستقرة بالنسبة إلى الأرض

RAGGIANA-18 (117° W)

Faisceau / Beam / Haz / 波束 / Луч / الحزمة : L5E2



X =	Longitude (degrees)	Longitude (degrés)	Longitud (grados)	经度(度)	Долгота (в градусах)	خط الطول (بالدرجات)
Y =	Gain (dBi)	Gain (dBi)	Ganancia (dBi)	增益(dBi)	Усиление (дБ)	الكسب (dBi)
	Obstructed Zone	Zone Occultée	Zona Ocultada	受阻区	Закрытая зона	منطقة محجوبة

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OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS	RADIOCOMMUNICATION BUREAU COMMENTS	OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES
Relatives à la Conclusion conformément au Nº 11.31	Relating to the Findings with respect to No. 11.31	Relativas a la Conclusión según N.º 11.31
Faisceaux orientables KUT et KUT2, assignations de fréquence dans les bandes 10 950 – 11 200 et 11 450 – 11 700 MHz avec une densité maximale de puissance =-54,3 dBW/Hz et une valeur maximale de la puissance en crête ≥-6,2 dBW, respectivement	Steerable beams KUT and KUT2, frequency assignments in the 10 950 – 11 200 and 11 450 – 11 700 MHz bands with maximum power density =-54.3 dBW/Hz and maximum peak power ≥-6.2 dBW, respectively	Haces orientables KUT y KUT2, asignaciones de frecuencia en las bandas 10 950 – 11 200 y 11 450 – 11 700 MHz con una densidad máxima de potencia =-54,3 dBW/Hz y un valor máximo de la potencia de cresta ≥-6,2 dBW, respectivamente
DEFAVORABLE Les limites de puissance surfacique prescrites au numéro 21.16 sont dépassées.	**UNFAVOURABLE** The power flux density limits specified in No. 21.16 are exceeded.	**DESFAVORABLE** Se han rebasado los límites de densidad de flujo de potencia especificados en el número 21.16.
Faisceau orientable KA1DN, assignations de fréquence 17 762,5, 17 887,5, 18 012,5, 18 137,5 MHz et dans les bandes 18 200 – 18 700, 18 700 – 19 700 MHz avec une densité maximale de puissance =-55 dBW/Hz et une valeur maximale de la puissance en crête ≥8 dBW	Steerable beam KA1DN, frequency assignments 17 762.5, 17 887.5, 18 012.5, 18 137.5 MHz and in the 18 200 – 18 700, 18 700 – 19 700 MHz bands with maximum power density =-55 dBW/Hz and maximum peak power ≥8 dBW	Haz orientable KA1DN, asignaciones de frecuencia 17 762,5, 17 887,5, 18 012,5, 18 137,5 MHz y en las bandas 18 200 – 18 700, 18 700 – 19 700 MHz con una densidad máxima de potencia =-55 dBW/Hz y un valor máximo de la potencia de cresta ≥8 dBW
DEFAVORABLE Les limites de puissance surfacique prescrites au numéro 21.16 sont dépassées.	**UNFAVOURABLE** The power flux density limits specified in No. 21.16 are exceeded.	**DESFAVORABLE** Se han rebasado los límites de densidad de flujo de potencia especificados en el número 21.16.

Assignation de fréquence 1 176,45 MHz

FAVORABLE
En application *du point 2* du *charge le Bureau des Radiocommunications* de la Résolution 609 (Rév. CMR-07), le Bureau a constaté que le niveau de puissance surfacique visé au *point 1 du recommande* de la Recommandation 608 (Rév. CMR-07) est dépassé par l'assignation de la station spatiale considérée, et il publie cette information conformément *au point 3* de *charge le Bureau des Radiocommunications* de la même Résolution.

FAVORABLE pour toutes les autres assignations de fréquence.

Frequency assignment 1 176.45 MHz

FAVOURABLE
In application of *instructs the Radiocommunication Bureau 2* of Resolution 609 (Rev. WRC-07), the Bureau has determined that the PFD level in the *recommends 1* of the Recommendation 608 (Rev. WRC-07) is exceeded by the assignment of the subject space station, and publishes this in accordance with *instructs the Radiocommunication Bureau 3* of the same Resolution.

FAVOURABLE for all other frequency assignments.

Asignación de frecuencia 1 176,45 MHz

FAVORABLE
En aplicacíon del *encarga a la Oficina de Radiocomunicaciones 2* de la Resolución 609 (Rev. CMR-07), la Oficina ha determinado que el nivel de DFP del *recomienda 1* de la Recomendación 608 (Rev. CMR-07) se rebasa por la asignación de la estación espacial en cuestión y ésta se publicará de conformidad con el *encarga a la Oficina de Radiocomunicaciones 3* de la citada Resolución.

FAVORABLE para todas las demás asignaciones de frecuencia.

无 线 电 通 信 局 的 意 见	ЗАМЕЧАНИЯ БЮРО РАДИОСВЯЗИ	تعليقات مكتب الاتصالات الراديوية
根据第11.31款的审查结果	Относительно Заключения по п. 11.31	المتعلقة بالنتيجة وفقاً للرقم 31.11
可调波束KUT和KUT2，最大功率密度=-54.3 dBW/Hz和最大峰值功率≥-6.2 dBW的10 950 – 11 200和11 450 – 11 700 MHz频段的频率指配	Управляемые лучи KUT и KUT2, частотные присвоения в полосах 10 950 – 11 200 и 11 450 – 11 700 МГц с максимальной плотностью мощности =−54,3 дБВт/Гц и максимальной пиковой мощностью ≥−6,2 дБВт	الحزمتان القابلتان للتوجيه KUT وKUT2، تخصيصا التردد 10 950 - 11 200 و11 450 - 11 700 MHz مع كثافة قصوى للقدرة =–54,3 dBW/Hz وقيمة قصوى لقدرة الذروة ≥–6,2 dBW
不合格 超出第21.16款的功率通量密度限值。	**НЕБЛАГОПРИЯТНОЕ** Превышаются пределы плотности потока мощности, указанные в п. 21.16.	**غير مؤاتيـــــة** تم تجاوز حدود كثافة تدفق القدرة المنصوص عليها في الرقم 16.21.
可调波束KA1DN，最大功率密度=-55 dBW/Hz和最大峰值功率≥8 dBW的17 762.5, 17 887.5, 18 012.5, 18 137.5 MHz频率指配和18 200 – 18 700, 18 700 – 19 700 MHz频段的频率指配	Управляемый луч KA1DN, частотные присвоения 17 762,5, 17 887,5, 18 012,5, 18 137,5 МГц и в полосах 18 200 – 18 700, 18 700 – 19 700 МГц с максимальной плотностью мощности =−55 дБВт/Гц и максимальной пиковой мощностью ≥8 дБВт	الحزمة القابلة للتوجيه KA1DN، تخصيصات التردد 17 762,5 و17 887,5 و18 012,5 و18 137,5 MHz وفي النطاقين 18 200 - 18 700 و18 700 - 19 700 MHz مع كثافة قصوى للقدرة =–55 dBW/Hz وقيمة قصوى لقدرة الذروة ≥8 dBW
不合格 超出第21.16款的功率通量密度限值。	**НЕБЛАГОПРИЯТНОЕ** Превышаются пределы плотности потока мощности, указанные в п. 21.16.	**غير مؤاتيـــــة** تم تجاوز حدود كثافة تدفق القدرة المنصوص عليها في الرقم 16.21.

1 176.45 MHz的频率指配

合格

在执行（WRC-07，修订版）第609号决议责成无线电通信局**2**时，通信局确定，**所述空间台站的指配没有超过（所述空间台站的指配超过）**（WRC-07，修订版）第608号建议的做出建议1中的功率通量密度水平，并根据同一决议的责成无线电通信局**3**在此予以公布。

所有其它频率指配均**合格。**

Частотное присвоение 1 176,45 МГц

БЛАГОПРИЯТНОЕ

Во исполнение п. 2 раздела *поручить Бюро радиосвязи* Резолюции 609 (Пересм. ВКР-07), Бюро определило, что уровень п.п.м., указанный в п. 1 раздела *рекомендует* Рекомендации 608 (Пересм. ВКР-07), превышается присвоением соответствующей космической станции, и оно публикует эту информацию в соответствии с п. 3 раздела *поручить Бюро радиосвязи* той же Резолюции.

БЛАГОПРИЯТНОЕ для всех других частотных присвоений.

تخصيص التردد MHz 1 176,45

مؤاتيـــــة

تطبيقاً للفقرة 2 *من* " *يكلف مكتب الاتصالات الراديوية*" من القرار (Rev. WRC-07) 609، قرر المكتب أن تخصيص التردد للشبكة الفضائية المعنية تجاوز حدود كثافة تدفق القدرة المشار إليها في الفقرة 1 من منطوق التوصية (Rev. WRC-07) 608، وينشر المكتب هذه المعلومات وفقاً للفقرة 3 *من* " *يكلف مكتب الاتصالات الراديوية*" من نفس القرار.

مؤاتيـــــة لجميع تخصيصات التردد الأخرى.

Relatives à l'examen conformément au Nº 9.36

Voir les pages 3-4 pour le résumé. Pour plus de détails, voir les pages qui suivent.

关于根据第 9.36 款的审查

见第 3-4 页的概述。详细情况见以下各页。

Relating to the examination with respect to No. 9.36

See pages 3-4 for the summary. Details are provided on pages that follow.

Относительно экспертизы по п. 9.36

Сводные данные см. на стр. 3-4. Подробная информация приводится на следующих страницах.

Relativas al examen según N.º 9.36

Véanse las páginas 3-4 para el resumen. Se indican los detalles en las páginas siguientes.

المتعلقة بالتفحص وفقاً للرقم 36.9

انظر الصفحتين 3-4 للاطلاع على الملخص. وللمزيد من التفاصيل انظر الصفحات التالية.

I. Nécessité d'une coordination au niveau du groupe
一、需要在组的层次进行的协调

I. Coordination requirements at group level
I. Потребности в координации на уровне группы

I. Requisitos de coordinación a nivel de grupo
I. متطلبات التنسيق على مستوى المجموعة

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:								Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً للرقم 7.9 بموجب:				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T				Delta T/T Дельта T/T				Delta T/T T/T دلتا				Arc de coordination 协调弧		Coordination Arc Дуга координации		Arco de coordinación قوس التنسيق
CEUF	R	113665081	6													G USA	J	LUX	MEX	RUS/IK
CEUL	R	113665059	6													G USA	J	LUX	MEX	RUS/IK
		113665060	6													G USA	J	LUX	MEX	RUS/IK
		113665061	6													G USA	J	LUX	MEX	RUS/IK
		113665062	6													G USA	J	LUX	MEX	RUS/IK
		113665063	6													G USA	J	LUX	MEX	RUS/IK
		113665064	6													G USA	J	LUX	MEX	RUS/IK
KA1UP	R	113665099	27	CTI/RAS	F	I										CAN RUS/IK	G USA	ISR	J	LUX
		113665100	27	CTI/RAS	F	I										CAN RUS/IK	G USA	ISR	J	LUX
		113665101	27	CTI/RAS	F	I										CAN RUS/IK	G USA	ISR	J	LUX
		113670056	28	CTI/RAS	F											CAN RUS/IK	G USA	ISR	J	LUX
		113670057	29	B HOL UAE	CAN I USA	CHN J	CTI/RAS KOR	CYP LUX	F NOR	G PAK	GRC QAT					CAN RUS/IK	G USA	ISR	J	LUX
		113670058	28	CTI/RAS	F											CAN RUS/IK	G USA	ISR	J	LUX
		113670059	29	CAN I	CHN J	CTI/RAS KOR	CYP LUX	F NOR	G PAK	GRC QAT	HOL UAE					CAN RUS/IK	G USA	ISR	J	LUX
		113670060	28	CTI/RAS	F											CAN RUS/IK	G USA	ISR	J	LUX
		113670061	29	CAN I	CHN J	CTI/RAS KOR	CYP LUX	F NOR	G PAK	GRC QAT	HOL UAE					CAN RUS/IK	G USA	ISR	J	LUX
KA2UP	R	113665102	27	CTI/RAS	F	I										CAN RUS/IK	G USA	ISR	J	LUX
		113665103	27	CTI/RAS	F	I										CAN RUS/IK	G USA	ISR	J	LUX

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:								Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً للرقم 7.9 بموجب:				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T			Delta T/T Дельта T/T			Delta T/T T/T دلتا		Arc de coordination 协调弧		Coordination Arc Дуга координации		Arco de coordinación قوس التنسيق
		113665104	27	CTI/RAS	F	I						CAN RUS/IK	G USA	ISR	J	LUX
		113670062	28	CTI/RAS	F							CAN RUS/IK	G USA	ISR	J	LUX
		113670063	29	CAN I USA	CHN J	CTI/RAS KOR	CYP LUX	F NOR	G PAK	GRC QAT	HOL UAE	CAN RUS/IK	G USA	ISR	J	LUX
		113670064	28	CTI/RAS	F							CAN RUS/IK	G USA	ISR	J	LUX
		113670065	29	CAN J	CHN KOR	CTI/RAS LUX	CYP NOR	F PAK	G QAT	GRC UAE	I	CAN RUS/IK	G USA	ISR	J	LUX
		113670066	28	CTI/RAS	F							CAN RUS/IK	G USA	ISR	J	LUX
		113670067	29	CAN I	CHN J	CTI/RAS KOR	CYP LUX	F NOR	G PAK	GRC QAT	HOL UAE	CAN RUS/IK	G USA	ISR	J	LUX
KUR	R	113665083	13									CAN RUS/IK	G	J	LUX	MEX
		113665084	13									CAN RUS/IK	G	J	LUX	MEX
		113665085	13									CAN RUS/IK	G	J	LUX	MEX
		113665086	13									CAN RUS/IK	G	J	LUX	MEX
		113665087	13									CAN RUS/IK	G	J	LUX	MEX
		113665088	13									CAN RUS/IK	G	J	LUX	MEX
KUR2	R	113665089	14									RUS/IK				
		113665090	14									RUS/IK				
		113665091	14									RUS/IK				
		113665092	14									RUS/IK				
		113665093	14	USA								RUS/IK				
		113665094	14	USA								RUS/IK				
CEDF	E	113665082	3									CAN RUS/IK	G USA	J	LUX	MEX
KA1DN	E	113665105	17									CAN RUS/IK	G USA	HOL	J	LUX
		113665106	17	USA								CAN RUS/IK	G USA	HOL	J	LUX
		113665107	17									CAN RUS/IK	G USA	HOL	J	LUX
		113670068	17	ARS/ARB	F	G	HOL	LUX	PAK	QAT	UAE	CAN USA	G	J	LUX	RUS/IK
		113670069	18	ARS/ARB	F	G	HOL	LUX	PAK	QAT	UAE	CAN	G	ISR	J	LUX

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:								Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً للرقم 7.9 بموجب:				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T			Delta T/T Дельта T/T			Delta T/T T/T دلتا		Arc de coordination 协调弧		Coordination Arc Дуга координации		Arco de coordinación قوس التنسيق
												RUS/IK	USA			
		113670070	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670071	19	CAN NOR	CYP RUS/IK	G UAE	GRC	HOL	J	KOR	LUX	CAN RUS/IK	G USA	ISR	J	LUX
		113670072	17	ARS/ARB PAK	CTI/RAS QAT	F UAE	G	HOL	ISR	LUX	MLA	CAN USA	G	J	LUX	RUS/IK
		113670073	18	ARS/ARB PAK	CTI/RAS QAT	F UAE	G	HOL	ISR	LUX	MLA	CAN RUS/IK	G USA	ISR	J	LUX
		113670074	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670075	19	CAN J	CHN KOR	CYP LUX	E NOR	F QAT	G RUS/IK	GRC S	HOL UAE	CAN RUS/IK	G USA	ISR	J	LUX
		113670076	17	ARS/ARB	F	G	HOL	LUX	PAK	QAT	UAE	CAN USA	G	J	LUX	RUS/IK
		113670077	18	ARS/ARB	F	G	HOL	LUX	PAK	QAT	UAE	CAN RUS/IK	G USA	ISR	J	LUX
		113670078	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670079	19	CAN NOR	CYP RUS/IK	G UAE	GRC	HOL	J	KOR	LUX	CAN RUS/IK	G USA	ISR	J	LUX
KA2DN	E	113665108	17									CAN RUS/IK	G USA	HOL	J	LUX
		113665109	17									CAN RUS/IK	G USA	HOL	J	LUX
		113665110	17									CAN RUS/IK	G USA	HOL	J	LUX
		113670080	17	ARS/ARB	F	G	ISR	LUX	PAK	UAE		CAN USA	G	J	LUX	RUS/IK
		113670081	18	ARS/ARB	F	G	ISR	LUX	PAK	UAE		CAN RUS/IK	G USA	ISR	J	LUX
		113670082	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670083	19	CAN NOR	CYP RUS/IK	G UAE	GRC	HOL	J	KOR	LUX	CAN RUS/IK	G USA	ISR	J	LUX
		113670084	17	ARS/ARB UAE	F	G	HOL	ISR	LUX	PAK	QAT	CAN USA	G	J	LUX	RUS/IK
		113670085	18	ARS/ARB UAE	F	G	HOL	ISR	LUX	PAK	QAT	CAN RUS/IK	G USA	ISR	J	LUX
		113670086	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670087	19	CAN LUX	CHN NOR	CYP RUS/IK	G UAE	GRC	HOL	J	KOR	CAN RUS/IK	G USA	ISR	J	LUX
		113670088	17	ARS/ARB	F	G	ISR	LUX	PAK	UAE		CAN	G	J	LUX	RUS/IK

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门：				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:								Administraciones identificadas según N.° 9.7 por : الإدارات المحددة وفقاً للرقم 7.9 بموجب:				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T			Delta T/T Дельта T/T			Delta T/T T/T دلتا		Arc de coordination 协调弧		Coordination Arc Дуга координации		Arco de coordinación قوس التنسيق
												USA				
		113670089	18	ARS/ARB	F	G	ISR	LUX	PAK	UAE		CAN RUS/IK	G USA	ISR	J	LUX
		113670090	18									CAN RUS/IK	G USA	ISR	J	LUX
		113670091	19	CAN NOR	CYP RUS/IK	G UAE	GRC	HOL	J	KOR	LUX	CAN RUS/IK	G USA	ISR	J	LUX
KUT	E	113665095	10									CAN	G	J	LUX	RUS/IK
KUT2	E	113665097	11									CAN RUS/IK	G	J	LUX	MEX
L1E1	E	113665065	1	ARS/ARB LUX	B NIG	CHN RUS	EGY USA	F/ESA	G	I	J					
		113665066	1	ARS/ARB LUX	B USA	CHN	EGY	F/ESA	G	I	J					
		113665067	1	ARS/ARB LUX	B NIG	CHN RUS	EGY USA	F/ESA	G	I	J					
		113665068	1	ARS/ARB LUX	B USA	CHN	EGY	F/ESA	G	I	J					
L1E2	E	113665069	1	ARS/ARB LUX	B NIG	CHN RUS	EGY USA	F/ESA	G	I	J					
		113665070	1	ARS/ARB LUX	B USA	CHN	EGY	F/ESA	G	I	J					
		113665071	1	ARS/ARB LUX	B NIG	CHN RUS	EGY USA	F/ESA	G	I	J					
		113665072	1	ARS/ARB LUX	B USA	CHN	EGY	F/ESA	G	I	J					
L5E1	E	113665073	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665074	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665075	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665076	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
L5E2	E	113665077	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665078	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665079	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					
		113665080	1	ARS/ARB LUX	B NIG	CHN USA	EGY	G	I	IND	J					

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations identifiées au titre du AP30A#7.1 识别主管部门的依据是 AP30A#7.1	Administrations identified under AP30A#7.1 Администрации, идентифицированные согласно AP30A#7.1	Administraciones identificadas según AP30A#7.1 إدارات محددة بموجب AP30A#7.1
KUR2	R	113665089	14			
		113665090	14			
		113665091	14			
		113665092	14			
		113665093	14	CHN ISR USA		
		113665094	14	CHN ISR USA		
KA1DN	E	113665105	17	F		
		113665106	17	BLZ BOL CAN CLM D EQA F IND PRU USA VEN		
		113665107	17	F		
		113670068	17			
		113670072	17	D IND		
		113670076	17			
KA2DN	E	113665108	17	F IND		
		113665109	17	BLZ D F IND		
		113665110	17	F IND		
		113670080	17	IND		
		113670084	17	D IND		
		113670088	17	IND		

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou situés à l'intérieur de l'arc de coordination (au titre du N° 9.7)
List of satellite networks for which Delta T/T > 6% or which are within the coordination arc (under No. 9.7)
Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco de coordinación (según N.° 9.7)
Delta T/T > 6% 的卫星网络清单或位于协调弧内的卫星网络清单（依据 9.7）
Список спутниковых сетей, для которых Дельта T/T > 6% или которые находятся внутри дуги координации (согласно № 9.7)
قائمة بالشبكات الساتلية التي تكون فيها قيمة دلتا T/T > 6% أو التي تقع داخل قوس التنسيق (بموجب الرقم 7.9)

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
ARS	ARB	ARABSAT 8A-30.5E	30.5 E	C	A	113520014	C	R	
		ARABSAT 8A-30.5E	30.5 E	C	T	313520014	C	R	
		ARABSAT 8B-26E	26 E	C	A	113520015	C	R	
		ARABSAT 8B-26E	26 E	C	T	313520015	C	R	
		ARABSAT 8C-20E	20 E	C	A	113520016	C	R	
		ARABSAT 8C-20E	20 E	C	T	313520016	C	R	
		ARABSAT 8D-7.5E	7.5 E	C	A	113520017	C	R	
		ARABSAT 8D-7.5E	7.5 E	C	T	313520017	C	R	
		ARABSAT 8E-34.5E	34.5 E	C	A	113520018	C	R	
		ARABSAT 8E-34.5E	34.5 E	C	T	313520018	C	R	
		ARABSAT 8F-44.5E	44.5 E	C	A	113520019		R	
		ARABSAT 8F-44.5E	44.5 E	C	T	313520019		R	
		ARABSAT 8G-11E	11 E	C	A	113520020	C	R	
		ARABSAT 8G-11E	11 E	C	T	313520020	C	R	
		ARABSAT 8H-17E	17 E	C	A	113520021	C	R	
		ARABSAT 8H-17E	17 E	C	T	313520021	C	R	
B		B-SAT-1A-1	45 W	C	A	112520279		R	
		B-SAT-1W	48 W	C	A	106520232	C	R	
		B-SAT-1W-1	48 W	C	A	112520148	C	R	
		B-SAT-2E	87 W	C	A	110520001	C	R	
CAN		ANIK-F2	111.1 W	C	A	100520282			A
		ANIK-F2	111.1 W	N	A	105500032			A
		ANIK-F2R	111.1 W	C	A	111520060	C	R	A
		ANIK-F3R	118.7 W	C	A	111520021	C	R	A
		CAN-BSS21	111.1 W	C	A	107520159			A
		CAN-BSS40	118.7 W	C	A	108520023			A
		CAN-BSS52 (111.1W)	111.1 W	C	A	109520111			A
		CAN-BSS53 (113W)	113 W	C	A	110520029			A
		CAN-BSS54 (114.9W)	114.9 W	C	A	110520030			A
		CANSAT (91W)-KAV2	91 W	C	A	112520434	C	R	
		CANSAT KA-3	82 W	C	A	95520181		R	
		CANSAT KA-4	111.1 W	C	A	96520171	C	R	A

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
		CANSAT KA-4	111.1 W	N	A	108501177	C	R	A
		CANSAT KA-5	118.7 W	C	A	96520172	C	R	A
		CANSAT KA-5	118.7 W	N	A	108501178	C	R	A
		CANSAT KA-5X	118.7 W	C	A	100520175			A
		CANSAT KA-5X	118.7 W	N	A	108500946			A
		CANSAT(107.3W)-CKUKA	107.3 W	C	A	112520025	C	R	
		CANSAT(118.7W)-EXTKU	118.7 W	C	A	109520254			A
		CANSAT(82W)-KA	82 W	C	A	112520070	C		
		CANSAT-24	111.1 W	C	A	105520334			A
		CANSAT-24	111.1 W	N	A	112500169			A
		CANSAT-49	109.2 W	C	A	108520030			A
		CANSAT-51	111.1 W	C	A	108520032			A
CHN		ASIASAT-100.3U	100.3 E	C	A	112520492	C	R	
		ASIASAT-100.7U	100.7 E	C	A	112520493	C	R	
		ASIASAT-105.3T	105.3 E	C	A	113520010	C	R	
		ASIASAT-120V	120 E	C	A	110520266	C	R	
		ASIASAT-AAA	122 E	C	A	111520126	C	R	
		ASIASAT-AAB	118 E	C	A	112520399	C	R	
		ASIASAT-AKW	122.2 E	C	A	109520276	C	R	
		ASIASAT-CKW	105.5 E	C	A	109520277	C	R	
		ASIASAT-CKZ	105.5 E	C	A	105520373	C	R	
		ASIASAT-CKZ	105.5 E	N	A	112500145	C	R	
		ASIASAT-EKW	100.5 E	C	A	109520278	C	R	
		ASIASAT-EKZ	100.5 E	C	A	105520374	C	R	
		ASIASAT-EKZ	100.5 E	N	A	111500241	C	R	
		CHINASAT-33	110.5 E	C	A	95520153	C		
		CHINASAT-33	110.5 E	N	A	107500478	C		
		COMPASS-110.5E	110.5 E	C	A	101520012	C		
		COMPASS-110.5E	110.5 E	N	A	103500418	C		
		COMPASS-160E	160 E	C	A	105520009		R	
		COMPASS-160E	160 E	N	A	109500803		R	
		COMPASS-B-144.5E	144.5 E	C	A	111520204	C	R	
		COMPASS-B-84E	84 E	C	A	111520203	C		
		SINOSAT-5	110.5 E	C	A	106520145	C		
CTI	RAS	RASCOM-3G-F	14 E	C	A	110520078	C		
		RASCOM-3G-G	17 E	C	A	110520079	C		
		RASCOM-3G-H	23.5 E	C	A	110520080	C		
		RASCOM-3G-J	31 E	C	A	110520081	C	R	
		RASCOM-3G-K	38 E	C	A	110520082	C	R	
CYP		KYPROS-ACHILLEAS	174 E	C	A	111520240	C	R	
		KYPROS-AETHER	2 W	C	A	111520244	C	R	
		KYPROS-APHRODITE	90 E	C	A	108520196	C		
		KYPROS-APHRODITE-2	90 E	C	A	111520150	C	R	
		KYPROS-APOLLO	56 W	C	A	110520263	C	R	
		KYPROS-ARES	89.5 E	C	A	109520238	C		
		KYPROS-ARTEMIS	174.5 W	C	A	108520253	C	R	
		KYPROS-ARTEMIS-2	174.5 W	C	A	111520151	C	R	

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
		KYPROS-ATHENA	22.5 E	C	A	108520197	C		
		KYPROS-ATHENA-2	22.5 E	C	A	111520193	C	R	
		KYPROS-ATLAS	123 E	C	A	111520246	C	R	
		KYPROS-EUROPA	16.5 E	C	A	111520247	C	R	
		KYPROS-HERA	107.5 E	C	A	110520264	C		
		KYPROS-OKEANOS	161 W	C	A	111520241	C	R	
		KYPROS-ORION	89.5 E	C	A	113520031	C	R	
		KYPROS-PERSEUS	50.5 W	C	A	111520242	C	R	
		KYPROS-POSEIDON	52.5 W	C	A	108520198	C	R	
		KYPROS-POSEIDON-2	52.5 W	C	A	111520195	C	R	
		KYPROS-PROMETHEUS	134 E	C	A	111520248	C	R	
		KYPROS-SAT-5	39 E	C	A	111520128	C	R	
		KYPROS-URANUS	172.5 W	C	A	111520243	C	R	
E		HISPASAT-9A	79 W	C	A	113520011		R	
		HISPASAT-9A	79 W	C	T	313520011		R	
EGY		NAVISAT-11A	28.25 E	C	A	109520317	C	R	
		NAVISAT-12A	35.5 E	C	A	109520318	C	R	
		NAVISAT-2A	21 E	C	A	109520315	C	R	
		NAVISAT-7A	1 E	C	A	110520449	C	R	
		NAVISAT-9A	14 E	C	A	109520316	C	R	
F	ESA	ARTEMIS-21.5E-NAV	21.5 E	C	A	98520872	C	R	
		ARTEMIS-21.5E-NAV	21.5 E	N	A	108500574	C	R	
		ASAT-P1B	2.8 W	C	A	111520227	C		
		ASAT-P2B	25 E	C	A	111520228	C		
		ASAT-P3B	31.2 E	C	A	111520229	C	R	
		DRN-D1	2.8 W	C	A	107520228	C		
		DRN-D2	80 W	C	A	107520227	C	R	
		DRN-D3	164 W	C	A	107520226	C		
		DRN-D4	98.5 E	C	A	107520229	C		
		DRN-P1B	48 W	C	A	108520188	C		
		DRN-P2B	21.5 E	C	A	108520189	C		
		DRN-P3B	31 E	C	A	108520190	C		
		DRN-P4B	36.5 E	C	A	108520191	C		
		F-SAT-K-E-80.5E	80.5 E	C	A	108520291		R	
		F-SAT-K-E-83.5E	83.5 E	C	A	108520292		R	
		MM 55.2W	55.2 W	C	A	109520243	C		
		MM 74.75W	74.75 W	C	A	110520218	C		
G		GIBSAT-113W	113 W	C	A	110520226			A
		GIBSAT-125W	125 W	C	A	110520010			A
		GIBSAT-129W-B	129 W	C	A	111520453	C	R	
		GIBSAT-137W	137 W	C	A	111520376	C	R	
		GIBSAT-47.5W	47.5 W	C	A	111520456		R	
		GIBSAT-68.5W	68.5 W	C	A	111520455		R	
		GIBSAT-72.5W	72.5 W	C	A	111520383		R	
		GIBSAT-G12-1	113 W	C	A	112520442	C	R	A
		GIBSAT-G12-2	116.8 W	C	A	112520443	C	R	A
		INMARSAT GSO-2J	54 W	C	A	97520322	C	R	

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		INMARSAT GSO-2J	54 W	N	A	109500253	C	R	
		INMARSAT GSO-2L	53 W	C	A	102520001	C	R	
		INMARSAT GSO-2L	53 W	N	A	108501009	C	R	
		INMARSAT-3 AOR EAST	15.5 W	C	A	90998012	C	R	
		INMARSAT-3 AOR EAST	15.5 W	N	A	97500292	C	R	
		INMARSAT-3 AOR WEST2	54 W	C	A	92520036	C	R	
		INMARSAT-3 AOR WEST2	54 W	N	A	97500291	C	R	
		INMARSAT-3 AOR WEST3	98 W	C	A	98520070	C	R	
		INMARSAT-3 AOR WEST3	98 W	N	A	107500118	C	R	
		INMARSAT-3 IOR WEST	25 E	C	A	95520052	C	R	
		INMARSAT-3 IOR WEST	25 E	N	A	103500320	C	R	
		INMARSAT-3 POR EAST	142 W	C	A	98520071	C	R	
		INMARSAT-3 POR EAST	142 W	N	A	106500290	C	R	
		INMARSAT-3 POR WEST	109 E	C	A	97520263	C	R	
		INMARSAT-3 POR WEST	109 E	N	A	103500319	C	R	
		INMARSAT-3 POR-2	178 E	C	A	92520037	C	R	
		INMARSAT-3 POR-2	178 E	N	A	97500253	C	R	
		INMARSAT-3 POR-3	143.5 E	C	A	101520019	C	R	
		INMARSAT-3 POR-3	143.5 E	N	A	108501205	C	R	
		INMARSAT-4 143.5E	143.5 E	C	A	104520036	C	R	
		INMARSAT-4 143.5E	143.5 E	N	A	112500010		R	
		INMARSAT-4 25E	25 E	C	A	104520033	C	R	
		INMARSAT-4 25E	25 E	N	A	110500192	C	R	
		INMARSAT-4 98W	98 W	C	A	105520012	C	R	
		INMARSAT-4 98W	98 W	N	A	110500194	C	R	
		INMARSAT-4A 143.5E	143.5 E	C	A	107520300	C	R	
		INMARSAT-4A 15.5W	15.5 W	C	A	107520302	C	R	
		INMARSAT-4A 178E	178 E	C	A	107520301	C	R	
		INMARSAT-4A 25E	25 E	C	A	107520298	C	R	
		INMARSAT-4A 53W	53 W	C	A	107520303	C	R	
		INMARSAT-4A 98W	98 W	C	A	107520304	C	R	
		INMARSAT-KA 107W	107 W	C	A	110520017	C	R	
		INMARSAT-KA 148E	148 E	C	A	110520021	C	R	
		INMARSAT-KA 151E	151 E	C	A	111520048	C	R	
		INMARSAT-KA 171E	171 E	C	A	111520049	C	R	
		INMARSAT-KA 174W	174 W	C	A	111520384	C	R	
		INMARSAT-KA 178W	178 W	C	A	110520016	C	R	
		INMARSAT-KA 180E	180 E	C	A	111520050	C	R	
		INMARSAT-KA 55W	55 W	C	A	110520020	C	R	
		INMARSAT-KA 56W	56 W	C	A	111520044	C	R	
		INMARSAT-KA 63W	63 W	C	A	111520045	C	R	
		INMARSAT-KA 97W	97 W	C	A	110520354	C	R	
		INMARSAT-S1	8.5 E	C	A	105520320	C	R	
		INMARSAT-S1-R	8.5 E	C	A	111520083	C	R	
		INMARSAT-S2	31 E	C	A	107520089	C	R	
		INMARSAT-S2	31 E	N	A	112500279	C	R	
		INMARSAT-S2-R	31 E	C	A	111520084	C	R	

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		INMARSAT-XL1	25 E	C	A	106520219	C	R	
		IOMESAT-1	121 W	C	A	112520022			A
		IOMSAT-11A	115 W	C	A	105520107			A
		IOMSAT-11A	115 W	N	A	112500005			A
		IOMSAT-2A2	15 W	C	A	112520042	C		
		IOMSAT-B12R-2	109.2 W	C	A	112520402	C	R	A
		UK-KA-1	70 W	C	A	111520140		R	
		UK-KA-12	125 W	C	A	113520155	C	R	A
		UK-KA-13	133 W	C	A	113520156	C	R	
		UK-KA-2	79.3 W	C	A	112520436		R	
		UK-KA-3	109.1 W	C	A	112520437	C	R	A
		UK-KA-4	12 W	C	A	113520152		R	
		UK-KA-5	24 W	C	A	113520153		R	
		UK-KA-7	79 W	C	A	113520154		R	
		UKMMSAT-A1	41 W	C	A	111520234	C	R	
		UKMMSAT-A2	33.5 W	C	A	111520235	C	R	
		UKMMSAT-B1	31 E	C	A	111520236	C	R	
		UKMMSAT-B2	39 E	C	A	111520237	C	R	
		UKSAT-16	109 W	C	A	107520282			A
GRC		HELLAS-SAT-2G	39 E	C	A	108520033	C		
HOL		BSSNET110W	110 W	C	A	107520031			A
		BSSNET114.5W	114.5 W	C	A	107520032			A
		BSSNET119W	119 W	C	A	107520033			A
		BSSNET2-111W	111 W	C	A	107520250			A
		BSSNET2-115W	115 W	C	A	107520251			A
		BSSNET2-119W	119 W	C	A	107520252			A
		NSS-G4-10	85 W	C	A	113520039	C	R	
		NSS-G4-2	157 W	C	A	113520095		R	
		NSS-G4-6	131 W	C	A	113520038	C	R	
		NSS-G4-9	86.5 W	C	A	113520096	C	R	
I		INTERACT-KA	9 E	C	A	110520003	C	R	
		NEWSAT-1A	1 E	C	A	110520097	C	R	
		NEWSAT-1D-41E	41 E	C	A	111520207	C		
IND		INSAT-NAV(131.5)	131.5 E	C	A	108520070	C		
		INSAT-NAV-A(132)	132 E	C	A	108520075	C		
		INSAT-NAV-A(34)	34 E	C	A	108520073	C		
		INSAT-NAVR(120.5)	120.5 E	C	A	112520046	C		
		INSAT-NAVR(121.5)	121.5 E	C	A	112520047	C		
		INSAT-NAVR(123.5)	123.5 E	C	A	112520048	C		
		INSAT-NAVR(126.5)	126.5 E	C	A	112520049	C		
		INSAT-NAVR(127.5)	127.5 E	C	A	112520050	C		
		INSAT-NAVR(129.5)	129.5 E	C	A	112520051	C		
ISR		AMS-C3-43E	43 E	C	A	113520147		R	
		AMS-C3-82.5E	82.5 E	C	A	113520149		R	
		AMS-CK-43E	43 E	C	A	111520388		R	
		AMS-CK-82.5E	82.5 E	C	A	111520468		R	
		SPARTAN II	123 W	C	A	109520252			A

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J		BBISS-2A	143 E	C	A	110520053		R	
		BBISS-2C	146 E	C	A	110520054		R	
		MTSAT-140E	140 E	C	A	96520077	C	R	
		MTSAT-140E	140 E	N	A	105500039	C	R	
		MTSAT-B-140E	140 E	C	A	102520152	C	R	
		MTSAT-B-140E	140 E	N	A	108501129	C	R	
		MTSAT-B-145E	145 E	C	A	102520154	C	R	
		MTSAT-B-145E	145 E	N	A	106500136	C	R	
		MTSAT-C-135E	135 E	C	A	107520018	C	R	
		MTSAT-C-140E	140 E	C	A	107520019	C	R	
		MTSAT-C-145E	145 E	C	A	107520020	C	R	
		N-SAT-120	120 E	C	A	107520016	C	R	
		N-SAT-150.5E	150.5 E	C	A	109520032	C	R	
		N-SAT-154E	154 E	C	A	109520033	C	R	
		N-SAT-162E	162 E	C	A	108520043	C	R	
		N-SAT-162E	162 E	N	A	111500229	C	R	
		N-SAT-90.75E	90.75 E	C	A	106520237	C		
		N-SAT-A-114.9W	114.9 W	C	A	109520325	C	R	A
		N-SAT-A-1E	1 E	C	A	109520267	C	R	
		N-SAT-A-28.5E	28.5 E	C	A	109520265	C	R	
		N-SAT-A-47.5W	47.5 W	C	A	109520264	C	R	
		N-SAT-A-67.5W	67.5 W	C	A	109520263	C	R	
		N-SAT-A-81W	81 W	C	A	109520262	C	R	
		N-SAT-A-8W	8 W	C	A	109520266	C	R	
		N-SAT-Y12-110E	110 E	C	A	112520397	C	R	
		N-SAT-Y12-124E	124 E	C	A	112520160	C	R	
		N-SAT-Y12-128E	128 E	C	A	112520161	C	R	
		N-SAT-Y12-132E	132 E	C	A	112520162	C	R	
		N-SAT-Y12-136E	136 E	C	A	112520398	C	R	
		N-SAT-Y12-144E	144 E	C	A	112520163	C	R	
		N-SAT-Y12-150E	150 E	C	A	112520164	C	R	
		N-SAT-Y12-154E	154 E	C	A	112520165	C	R	
		N-SAT-Y12-158E	158 E	C	A	112520166	C	R	
		N-SAT-Y12-162E	162 E	C	A	112520167	C	R	
		N-SAT-Y12-173W	173 W	C	A	113520025	C	R	
		N-SAT2-120E	120 E	C	A	110520451	C	R	
		N-SAT2-127W	127 W	C	A	112520159	C	R	
		N-SAT2-144E	144 E	C	A	109520034	C	R	
		N-SAT2-158E	158 E	C	A	109520035	C	R	
		N-SAT2-162E	162 E	C	A	109520036	C	R	
		N-SAT2-88E	88 E	C	A	112520156	C	R	
		N-SAT2-93E	93 E	C	A	112520157	C	R	
		N-SAT2-98.5E	98.5 E	C	A	112520158	C	R	
		QZSS-GS1	90.5 E	C	A	112520495	C	R	
		QZSS-GS1	90.5 E	C	T	313520084	C	R	
		QZSS-GS3	123 E	C	A	112520496	C	R	
		QZSS-GS3	123 E	C	T	313520085	C	R	

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		QZSS-GS4	127 E	C	A	112520497	C	R	
		QZSS-GS4	127 E	C	T	313520086	C	R	
		QZSS-GS5	137 E	C	A	112520498	C	R	
		QZSS-GS5	137 E	C	T	313520087	C	R	
		QZSS-GS8	168 E	C	A	112520499	C	R	
		QZSS-GS8	168 E	C	T	313520088	C	R	
KOR		KOREASAT-114.5K	114.5 E	C	A	113520051	C	R	
LUX		LUX-G3-19.2E	19.2 E	C	A	103520553		R	
		LUX-G3-19.2E	19.2 E	N	A	110500151		R	
		LUX-G3-2	5 E	C	A	103520557		R	
		LUX-G3-2	5 E	N	T	113500086		R	
		LUX-G3-4	31 E	C	A	103520559		R	
		LUX-G5-54	123 W	C	A	107520094			A
		LUX-G5-57	109.2 W	C	A	108520028			A
		LUX-G5-8	31.5 E	C	A	107520155		R	
		LUX-G6-1	1.8 E	C	A	108520152		R	
		LUX-G6-12	43.5 E	C	A	108520161		R	
		LUX-G6-2	5 E	C	A	108520153		R	
		LUX-G6-2-E	5 E	C	A	109520247	C	R	
		LUX-G6-3	8.5 E	C	A	108520154		R	
		LUX-G6-38	119 W	C	A	108520141			A
		LUX-G6-39	115 W	C	A	108520142			A
		LUX-G6-4	7 E	C	A	109520279		R	
		LUX-G6-40	111.1 W	C	A	108520143			A
		LUX-G6-5	19.2 E	C	A	108520155		R	
		LUX-G6-51	40.5 W	C	A	108520163		R	
		LUX-G6-53	24 W	C	A	108520164		R	
		LUX-G6-57	3 W	C	A	108520165		R	
		LUX-G6-6	21.5 E	C	A	108520156		R	
		LUX-G6-7	23.5 E	C	A	108520157		R	
		LUX-G6-8	28.2 E	C	A	108520158		R	
		LUX-G6-9	31.5 E	C	A	108520159		R	
		LUX-G7-1	2 E	C	A	110520106		R	
		LUX-G7-10	31 E	C	A	110520108		R	
		LUX-G7-11	38.5 E	C	A	110520109		R	
		LUX-G7-3	5 E	C	A	110520107		R	
		LUX-G7-38	123 W	C	A	110520033			A
		LUX-G7-38B	115 W	C	A	110520034			A
		LUX-G7-38C	117 W	C	A	110520035			A
		LUX-G7-39	111.1 W	C	A	110520036			A
		LUX-G7-40	109.2 W	C	A	110520037			A
		LUX-G7-48	67 W	C	A	110520220		R	
		LUX-G7-5	19.2 E	C	A	110520085		R	
		LUX-G7-50	47 W	C	A	110520258		R	
		LUX-G7-53	24 W	C	A	110520113		R	
		LUX-G7-55	7 W	C	A	110520209		R	
		LUX-G7-56	4 W	C	A	110520196		R	

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
		LUX-G7-57	1 E	C	A	110520114		R	
		LUX-G7-6	21.5 E	C	A	110520086		R	
		LUX-G7-7	23.5 E	C	A	110520087		R	
		LUX-G7-8	28.2 E	C	A	110520088		R	
		LUX-G7-9	31.5 E	C	A	110520089		R	
		LUX-G7-9-E2	31.5 E	C	A	111520428	C	R	
		LUX-G8-19	93.5 E	C	A	112520278		R	
		LUX-G8-2	5 E	C	A	111520421		R	
		LUX-G8-36	135 W	C	A	111520529	C	R	
		LUX-G8-39	116.8 W	C	A	111520378	C	R	A
		LUX-G8-41	105 W	C	A	111520530	C	R	
		LUX-G8-43	87 W	C	A	111520531	C	R	
		LUX-G8-44	83 W	C	A	111520394	C	R	
		LUX-G8-47	67 W	C	A	111520532		R	
		LUX-G8-5	19.2 E	C	A	111520422		R	
		LUX-G8-51	37.5 W	C	A	112520143		R	
		LUX-G8-6	23.5 E	C	A	111520423		R	
		LUX-G8-7	28.2 E	C	A	111520424		R	
		LUX-G8-8	31 E	C	A	111520425		R	
		LUX-G8-9	31.5 E	C	A	111520426		R	
MEX		MEXSAT 113 KU EXT	113 W	C	A	108520270			A
		MEXSAT 113 KU EXT	113 W	N	T	113500072			A
		MEXSAT 114.9 KU EXT	114.9 W	C	A	108520271			A
		MEXSAT 114.9 KU EXT	114.9 W	N	A	113500015			A
		MEXSAT 116.8 KU EXT	116.8 W	C	A	108520272			A
		MEXSAT 116.8 KU EXT	116.8 W	N	T	113500074			A
		MEXSAT113 L-CEXT-X	113 W	C	A	110520118			A
		MEXSAT113 L-CEXT-X	113 W	N	T	113500073			A
		MEXSAT114.9 L-CEXT-X	114.9 W	C	A	109520136			A
		MEXSAT114.9 L-CEXT-X	114.9 W	N	A	113500014			A
		MEXSAT116.8 L-CEXT-X	116.8 W	C	A	111520029			A
		MEXSAT116.8 L-CEXT-X	116.8 W	N	T	113500075			A
MLA		MEASAT-87E-A	87 E	C	A	110520337		R	
NIG		NIGCOMSAT-1A	19.2 W	C	A	109520079		R	
NOR		BIFROST-0.8W-2010	0.8 W	C	A	111520065	C	R	
		BIFROST-0.8W-2010-KA	0.8 W	C	A	110520155	C		
		BIFROST-2E-FSS-2009	2 E	C	A	109520237	C	R	
		BIFROST-4W-FSS-2009	4 W	C	A	109520236	C	R	
		DUB DUB-3-28.8W	28.8 W	C	A	111520305	C		
		DUB DUB-4-7.7W	7.7 W	C	A	112520401	C	R	
		DUB DUB-5-18W	18 W	C	A	113520022	C	R	
		DUB DUB-5-18W	18 W	C	T	313520022	C	R	
		DUB DUB-6-15.5W	15.5 W	C	A	113520023	C	R	
		SE-KA-174W	174 W	C	A	111520412	C	R	
		SE-KA-178W	178 W	C	A	111520413	C	R	
		SE-KA-180E	180 E	C	A	111520408	C	R	
		SE-KA-20W	20 W	C	A	113520030	C	R	

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
		SE-KA-28W	28 W	C	A	113520024	C	R	
		SE-KA-50W	50 W	C	A	113520054	C	R	
		SE-KA-55W	55 W	C	A	111520409	C	R	
		SE-KA-56W	56 W	C	A	111520410	C	R	
		SE-KA-63W	63 W	C	A	111520411	C	R	
PAK		PAKSAT-2R1	41 E	C	A	109520274	C	R	
QAT		QATARSAT-9	21.5 E	C	A	111520333	C	R	
		QATARSAT-G2-3	14.5 E	C	A	113520062	C	R	
		QATARSAT-G2-30	135.5 E	C	A	113520065	C	R	
		QATARSAT-G2-6	25.5 E	C	A	113520063	C	R	
		QATARSAT-G2-7	26 E	C	A	113520064	C	R	
RUS	IK	INTERSPUTNIK-113W	113 W	C	A	112520125	C	R	A
		INTERSPUTNIK-87W	87 W	C	A	112520127	C	R	
		INTERSPUTNIK-97.8W	97.8 W	C	A	112520126	C	R	
		VSSRD-2M	167 E	C	A	106520149		R	
S		SIRIUS-13W-4	13 W	C	A	108520256		R	
		SIRIUS-13W-6	13 W	C	A	111520452		R	
		SIRIUS-5E	5 E	C	A	104520171		R	
		SIRIUS-5E	5 E	N	A	112500153		R	
		SIRIUS-5E	5 E	N	T	312500296		R	
		SIRIUS-5E-2	5 E	C	A	107520044		R	
		SIRIUS-5E-7	5 E	C	A	111520429		R	
UAE		EMARSAT-7F	44 E	C	A	109520157		R	
		EMARSAT-7G/M	127 E	C	A	109520161	C	R	
		EMARSAT-9G/M	127 E	C	A	112520445	C	R	
		EMARSAT-9Q	137.8 E	C	A	113520107	C	R	
		EMARSAT-9W	70.5 W	C	A	113520108	C	R	
		EMARSAT-9X	73 W	C	A	113520109	C	R	
		EMARSAT-9Y	14.6 E	C	A	113520110	C	R	
		EMARSAT-9Y/M	9 W	C	A	113520111	C	R	
		YAHSAT-KA-17.5W	17.5 W	C	A	108520284	C		
		YAHSAT-KA-33E	33 E	C	A	108520134	C		
		YAHSAT-N-20W	20 W	C	A	109520029	C		
		YAHSAT-N-25.5E	25.5 E	C	A	109520303	C		
		YAHSAT-N-33W	33 W	C	A	109520342	C		
		YAHSAT-N-45W	45 W	C	A	109520343	C		
		YAHSAT-N-8E	8 E	C	A	109520261	C		
USA		LM-RPS-107.3W	107.3 W	C	A	100520444	C	R	
		LM-RPS-107.3W	107.3 W	N	A	109500412	C	R	
		LM-RPS-133W	133 W	C	A	100520445	C	R	
		LM-RPS-133W	133 W	N	A	109500413	C	R	
		TDRS 12W	12 W	C	A	107520009		R	
		TDRS 12W	12 W	N	A	108501124		R	
		TDRS 12W	12 W	N	T	311500215		R	
		USABSN-10A	110.4 W	C	A	108520118			A
		USABSS-18	119 W	B	A	105556008		R	
		USASAT-31G	121 W	C	A	96520489			A

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
		USASAT-31G	121 W	N	A	105500186			A
		USASAT-71M	77.3 W	C	A	113520073		R	

Liste des réseaux à satellite pour lesquels Delta T/T > 6% (au titre du AP30A#7.1)
List of satellite networks for which Delta T/T > 6% (under AP30A#7.1)
Lista de redes de satélite para las que Delta T/T > 6% (según AP30A#7.1)
Delta T/T > 6%的卫星网络清单（依据 AP30A#7.1）
Список спутниковых сетей, для которых Дельта T/T > 6% (согласно AP30A#7.1)
قائمة بالشبكات الساتلية التي تكون فيها قيمة دلتا T/T > 6% (بموجب AP30A#7.1)

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference
BLZ		BLZ00001	115.8 W	B	A			R
BOL		BOLAND01	115.2 W	B	A			R
CAN		CAN-BSS7	129 W	B	A			R
CHN		ASIASAT-DTH-A1	122.2 E	B	A			R
CLM		CLMAND01	115.2 W	B	A			R
D		EUROPESTAR-45E-BSSA	45 E	B	A			R
EQA		EQACAND1	115.2 W	B	A			R
		EQAGAND1	115.2 W	B	A			R
F		F-SAT-E-BSS-80.5E	80.5 E	B	A			R
IND		INSAT-KUP-BSS(111.5)	111.5 E	B	A			R
		INSAT-KUP-BSS(82.5E)	82.5 E	B	A			R
		INSAT-KUP-BSS(83E)	83 E	B	A			R
		INSAT-KUP-BSS(93.5E)	93.5 E	B	A			R
ISR		AMS-BSS-137E	137 E	B	A			R
PRU		PRUAND02	115.2 W	B	A			R
USA		USABSS-36	110.1 W	B	A			R
		USABSS-7A	119 W	B	A			R
		USAC_101	140 E	B	A			R
		USAC_102	140 E	B	A			R
		USAEH004	118.8 W	B	A			R
VEN		VENAND03	115.2 W	B	A			R

III. Administrations susceptibles d'être défavorablement influencées au niveau du groupe (à titre d'information uniquement, voir N° 9.36.1)
三、在组的层面潜在的受干扰的主管部门(仅供参考，见第9. 36. 1款)

III. Potentially affected administrations at group level (for information only, see No. 9.36.1)

III. Потенциально затрагиваемые администрации на уровне группы (исключительно для информации, см. п. 9.36.1)

III. Administraciones posiblemente afectadas a nivel de grupo (sólo para información, véase el N.° 9.36.1)

III. الإدارات التي يحتمل أن تتأثر تأثراً غير مؤات على مستوى المجموعة (انظر الرقم 1.36.9 للعلم فقط)

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations susceptibles d'être défavorablement influencées au titre du N° 9.13 潜在的受干扰的主管部门 9.13	Potentially affected administrations under No. 9.13 Администрации, потенциально затрагиваемые согласно № 9.13	Administraciones posiblemente afectadas según N.° 9.13 الإدارات التي يحتمل أن تتأثر بموجب الرقم 13.9
KA1UP	R	113670056	28	CAN D F G USA		
		113670058	28	CAN D F G USA		
		113670060	28	CAN D F G USA		
KA2UP	R	113670062	28	CAN D F G USA		
		113670064	28	CAN D F G USA		
		113670066	28	CAN D F G USA		
KA1DN	E	113670070	18	CAN F G USA		
		113670074	18	CAN F G USA		
		113670078	18	CAN F G USA		
KA2DN	E	113670082	18	CAN F G USA		
		113670086	18	CAN F G USA		
		113670090	18	CAN F G USA		
L1E1	E	113665065	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665066	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665067	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665068	1	CHN D/GLS F/ESA F/GLS I IND J USA		
L1E2	E	113665069	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665070	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665071	1	CHN D/GLS F/ESA F/GLS I IND J USA		
		113665072	1	CHN D/GLS F/ESA F/GLS I IND J USA		
L5E1	E	113665073	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665074	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665075	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665076	1	CHN D/GLS F/GLS I/GLS IND J USA		
L5E2	E	113665077	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665078	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665079	1	CHN D/GLS F/GLS I/GLS IND J USA		
		113665080	1	CHN D/GLS F/GLS I/GLS IND J USA		

Relatives aux dispositions	Relating to provisions	Relativas a las disposiciones
- La disposition 9.7 s'applique à toutes les assignations de fréquence.	- Provision 9.7 applies to all frequency assignments.	- La disposición 9.7 se aplica a todas las asignaciones de frecuencia.
- La disposition 9.13 s'applique aux assignations de fréquence dans les bandes 1 166,1765 – 1 186,7235, 1 565,1465 – 1 585,6935, 18 800 – 19 700 et 28 600 – 29 500 MHz	- Provision 9.13 applies to frequency assignments in the 1 166.1765 – 1 186.7235, 1 565.1465 – 1 585.6935, 18 800 – 19 700 and 28 600 – 29 500 MHz bands.	- La disposición 9.13 se aplica a las asignaciones de frecuencia en las bandas 1 166,1765 – 1 186,7235, 1 565,1465 – 1 585,6935, 18 800 – 19 700 y 28 600 – 29 500 MHz
- La disposition AP30A 7.1 s'applique aux assignations de fréquence dans les bandes 17 700 – 18 100 et 14 500 – 14 800 MHz	- Provision AP30A 7.1 applies to frequency assignments in the 17 700 – 18 100 and 14 500 – 14 800 MHz bands	- La disposición AP30A 7.1 se aplica a las asignaciones de frecuencia en las bandas 17 700 – 18 100 y 14 500 – 14 800 MHz
Les prescriptions en matière de coordination relatives à l'Article 7 de l'Appendice 30A ont été fixées en ce qui concerne les alinéas a) et b) du § 7.2.1 dudit Article. De nouvelles prescriptions en matière de coordination en ce qui concerne l'alinéa c) du § 7.2.1, le cas échéant, seront fixées ultérieurement, une fois que toutes les notifications au titre du § 4.1 ou 4.2 de l'Article 4 de l'Appendice 30A reçues à compter du 3 juin 2000 et avant la date de réception du réseau considéré auront été traitées par le Bureau.	Coordination requirements relating to Article 7 of Appendix 30A have been established with respect to sub-paragraphs a) and b) of § 7.2.1 of this Article. Additional coordination requirements with respect to sub-paragraph c) of § 7.2.1, if any, will be established later, once all submissions under § 4.1 or 4.2 of Article 4 of Appendix 30A received as from 3 June 2000 and before the date of receipt of the subject network will have been processed by the Bureau.	Los requisitos de coordinación relativos al Artículo 7 del Apéndice 30A se establecieron respecto a los apartados a) y b) del § 7.2.1 de dicho Artículo. Los requisitos adicionales de coordinación respecto al apartado c) del § 7.2.1, de haberlos, se establecerán ulteriormente, una vez que la oficina haya procesado todas las notificaciones, conforme a los puntos 4.1 ó 4.2 del Artículo 4 del Apéndice 30A, recibidas a partir del 3 de junio de 2000 y antes de la fecha de recepción de la red en cuestión.

相关条款	Относительно положений	المتعلقة بالأحكام
- 第9.7款适用于所有频率指配。	- Положение 9.7 применяется ко всем частотным присвоениям.	– ينطبق الحكم 7.9 على جميع تخصيصات التردد.
- 第9.13款适用于1 166.1765 – 1 186.7235, 1 565.1465 – 1 585.6935, 18 800 – 19 700和 28 600 – 29 500 MHz频段内的频率指配。	- Положение 9.13 применяется к частотным присвоениям в полосах 1 166,1765 – 1 186,7235, 1 565,1465 – 1 585,6935, 18 800 – 19 700 и 28 600 – 29 500 МГц.	– ينطبق الحكم 13.9 على تخصيصات التردد في النطاقات 1 166,1765 - 1 186,7235 و1 565,1465 - 1 585,6935 و18 800 - 19 700 و28,600 - 29 500 MHz.
- 附录 30A 的 7.1 款适用于 17 700 – 18 100 和 14 500 – 14 800 MHz 频段内的频率指配。	- Положение AP30A 7.1 применяется к частотным присвоениям в полосах 17 700 – 18 100 и 14 500 – 14 800 МГц.	– ينطبق الحكم 1.7 من التذييل 30A على تخصيصات التردد في النطاقين 17 700 - 18 100 و14 500 - 14 800 MHz.
已就第 7 条的 7.2.1 段的 a) 和 b) 小段确定了与附录 30A 第 7 条有关的协调需求。与 7.2.1 段的 c) 小段有关的附加协调需求将在以后确定，即，只有当 2000 年 6 月 3 日以后至所述网络收到之日前根据附录 30A 第 4 条第 4.1 或 4.2 段收到的所有提交资料由通信局处理后才予以确定。	Запросы о координации, относящиеся к Статье 7 Приложения 30A, были составлены в соответствии с подпунктами a) и b) п. 7.2.1 этой статьи. Дополнительные запросы о координации относительно подпункта c) п. 7.2.1 будут составлены позднее, в случае необходимости, после обработки Бюро всех представлений, полученных в соответствии с пп. 4.1 или 4.2 Статьи 4 Приложения 30A после 3 июня 2000 года и до даты получения данной сети.	تم تحديد متطلبات التنسيق المتعلقة بالمادة 7 من التذييل 30A، فيما يتعلق بالفقرتين الفرعيتين أ) وب) من الرقم 1.2.7 من هذه المادة. وسيتم لاحقاً تحديد متطلبات التنسيق الإضافية إذا لزم الأمر فيما يتعلق بالفقرة الفرعية ج) من الرقم 1.2.7، بعد استلام جميع التبليغات بموجب الرقم 1.4 أو الرقم 2.4 من المادة 4 في التذييل 30A اعتباراً من 3 يونيو 2000 وقبل تاريخ الاستلام المحدد للشبكة المذكورة بعد معالجة المكتب لهذه التبليغات.

Relatives aux observations des administrations concernant cette demande de coordination

Toute la correspondance relative à cette demande de coordination doit être adressée (avec copie au Bureau des radiocommunications) à:

Relating to comments administrations may have on this coordination request

All correspondence regarding this request for coordination is to be addressed (with copy to the Radiocommunication Bureau) to:

Relativas a las observaciones de las administraciones sobre esta solicitud de coordinación

Toda la correspondencia relativa a la presente solicitud de coordinación debe ser enviada (con copia a la Oficina de Radiocomunicaciones) a:

有关主管部门可能对本协调要求提出的意见

与本协调要求有关的所有函件请寄送至（副本送无线电通信局）：

Относительно замечаний администраций по данному запросу о координации

Любую корреспонденцию относительно настоящего запроса о координации следует направлять (с копией в Бюро радиосвязи) по адресу:

فيما يخص التعليقات التي قد تبديها الإدارات بشأن طلب التنسيق هذا

ينبغي أن توجه أي مراسلات متعلقة بطلب التنسيق هذا (مع نسخة إلى مكتب الاتصالات الراديوية) إلى العنوان التالي:

THE CHIEF EXECUTIVE OFFICER
NATIONAL INFORMATION AND COMMUNICATIONS
TECHNOLOGY AUTHORITY (NICTA)
FRANGIPANI STREET, HOHOLA
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