



Innovation, Science and
Economic Development Canada

Innovation, Sciences et
Développement économique Canada

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Spectrum Management and Telecommunications

Decision on Proposed Revisions to the Canadian Table of Frequency Allocations

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1. Intent

Through the release of this document, Innovation, Science and Economic Development Canada (the Department) announces changes to the Canadian Table of Frequency Allocations (Canadian Table), resulting from the consultation process SMSE-005-17, [Proposed Revisions to the Canadian Table of Frequency Allocations \(2017 edition\)](#). The Canadian Table will be modified accordingly.

2. Background

The Department revises the Canadian Table on a periodic basis, normally following an International Telecommunication Union (ITU) World Radiocommunication Conference (WRC). The most recent WRC, held in November 2015 (WRC-15), resulted in a number of updates to the International Table of Frequency Allocations (International Table). As the Canadian Table is derived from the International Table, corresponding updates were required.

On August 17, 2017, the Department released a [public consultation](#) on these required corresponding updates, as well as on proposed updates related to domestic policy changes and editorial feedback received from stakeholders. During the consultation comment period, which ended on October 25, 2017, comments were received from nine parties, who mainly indicated their general agreement with the proposed revisions.

3. Summary of comments received

Nine comments were received, of which four were from radio amateur associations/individuals, including the Radio Amateurs of Canada (RAC). The other comments received were from the Radio Advisory Board of Canada (RABC), SaskTel, Canadian Satellite and Space Industry Forum (CSSIF), Bell Mobility and TerreStar Solutions.

There was general support for almost all the proposed changes to the Canadian Table. For a few proposals, stakeholders requested some additional revisions, while SaskTel simply noted an editorial correction to a specific frequency band. A summary of the specific comments received are provided in table 1.

Table 1: Summary of specific comments received

Stakeholders	Comments
Radio amateur community and RABC	Requested to modify the power limit in the newly allocated band 5 351.5–5 366.5 kHz for the amateur service, which would align with the power limit for frequencies in this range and in adjacent bands, as per the existing Canadian footnote C21 .
RABC	Requested a change in wording of the new footnote CXYZ (C24A) to clarify that, even though the frequency range 470–698 MHz is identified internationally for International

	Mobile Telecommunications (IMT), only the band 614–698 MHz is identified as such in Canada.
CSSIF (satellite industry)	Expressed concerns about modifying the existing footnote C49 to limit the entire 39.5–40.5 GHz band to government-exclusive use. The original text of the footnote limited “all or a portion of” the bands to government-exclusive use.
TerreStar Solutions	Requested a new mobile allocation in the 1695–1710 MHz band.

4. Decisions

4.1 Proposals for which no issues were raised

Support was expressed, or no comments were received, on the majority of the proposed changes to the Canadian Table. The Department will adopt those proposed changes.

D1: The Department will adopt all the changes proposed in the consultation for which no issues were raised.

4.2 Proposals for which comments were received

With respect to the sections of the Canadian Table for which comments were received, the Department has assessed the comments and will adopt specific decisions for each, as outlined below.

4.2.1 Power limit in the 5 351.5–5 366.5 kHz band

The radio amateur community and the RABC requested that the Department adopt the same power limit as is currently allowed in Canadian footnote **C21** for the newly allocated secondary allocation, instead of the one proposed in international footnote **5.133B**. The Department agrees with the feedback and will therefore not adopt international footnote **5.133B**. Instead, changes to Canadian footnote **C21** will be made to reflect the adoption of the higher power limit.

D2: The Department will adopt the following modifications to footnote **C21**.

MOD

C21 (CAN-148) Amateur service operators may transmit in the frequency band 5 351.5–5 366.5 kHz and on the following ~~five-four~~ centre frequencies: 5 332 kHz, 5 348 kHz, ~~5 358.5 kHz,~~ 5 373 kHz, and 5 405 kHz. Amateur stations are allowed to operate with a maximum effective radiated power of 100 W PEP in each channel and are restricted to the following emission modes and designators: telephony (2K80J3E), data (2K80J2D), RTTY (60H0J2B) and CW (150HA1A). Transmissions in any channel may not occupy a bandwidth of more than 2.8 kHz, ~~entered on these five frequencies.~~ Such use is not in accordance with international frequency allocations. Canadian amateur operations shall not cause interference to fixed and mobile operations in Canada or in other countries and, if such interference

occurs, the amateur service may be required to cease operations. The amateur service in Canada may not claim protection from interference by the fixed and mobile operations of other countries.

4.2.2 Clarification of footnote CXYZ (C24A)

At WRC-15, the frequency bands 470–608 MHz and 614–698 MHz were identified for IMT in Canada through international footnotes **5.295** and **5.308A**. However, after WRC-15, it was decided that only the frequency band 614–698 MHz would be identified for IMT in Canada. In its comments submitted to the Department, the RABC proposed to reword Canadian footnote **CXYZ (C24A)** to reflect this decision. The Department agrees with the feedback and will adopt a new Canadian footnote **C24A**, as shown below.

D3: The Department will adopt the following new Canadian footnote **C24A**.

ADD

C24A (CAN-18) In Canada, within the frequency range 470–698 MHz, the frequency band 614–698 MHz is identified for International Mobile Telecommunications (IMT).

4.2.3 Changes originally proposed to Canadian footnotes C49 and C50

In the consultation, the Department proposed modifying Canadian footnotes **C49** and **C50** to remove the wording “that in all or a portion of, the bands”, given the ambiguity that could be created with respect to its interpretation in the use of the fixed-satellite service (FSS) (**C49**) and mobile-satellite service (MSS) (**C50**) by the Government of Canada. The CSSIF expressed concerns that the proposed modifications to footnote **C49** would limit the flexibility in use of the spectrum in the event that it is not being fully utilized by the Government of Canada. The Department confirms that the frequency bands 7 250–7 750 MHz, 7 900–8 400 MHz, 20.2–21.2 GHz and 30–31 GHz are currently being used. In light of this, the Department will make changes to footnotes **C49** and **C50**, as shown below.

D4: The Department will make the following changes to footnotes **C49** and **C50**.

MOD

C49 (CAN-18) In the frequency bands 7 250–7 750 MHz, and 7 900–8 400 MHz, and, in all or a portion of, the bands 20.2–21.2 GHz, and 30–31 GHz and 39.5–40.5 GHz as required, the use of the fixed-satellite service is limited to the Government of Canada.

MOD

C50 (CAN-18) In the frequency bands 7 250–7 375 MHz, 7 975–8 025 MHz, 20.2–21.2 GHz, 30–31 GHz, 39.5–40.5 GHz and 43.5–45.5 GHz and, in all or a portion of, the bands 20.2–21.2 GHz, 30–31 GHz and 39.5–40.5 GHz as required, the use of the mobile-satellite service is limited to the Government of Canada.

4.2.4 Request for changes in the 1695–1710 MHz band

TerreStar Solutions requested the addition of a new mobile service allocation in the 1695–1710 MHz band in the Canadian Table. Adopting such a proposal would constitute a major change in policy outside the scope of this consultation, and would therefore need to be addressed through a separate consultation. As such, a new allocation to the mobile service in the frequency band 1 695–1 710 MHz will not be adopted at this time. The Department notes that comments were sought on the 1695–1710 MHz band through consultation process SLPB-006-17, [Consultation on the Spectrum Outlook 2018 to 2022](#).

D5: The Department will not make any changes to the Canadian Table in the frequency band 1695–1710 MHz at this time.

NOC

1 675 - 1 700	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341
1 700 - 1 710	FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341