

RESOLUTION 365 (WRC-23)

Provisional application of the Radio Regulations for the introduction of new geostationary satellite networks into the global maritime distress and safety system

The World Radiocommunication Conference (Dubai, 2023),

considering

a) the growing demand for global maritime distress and safety system (GMDSS) communications capabilities to enhance maritime safety;

b) that the Maritime Safety Committee (MSC) of the International Maritime Organization (IMO), in its resolution MSC.529(106), recognized a new geostationary (GSO) mobile satellite communication system¹ for the use of a regional messaging system in the GMDSS limited to the service area within 75°E to 135°E longitude and 10°N to 55°N latitude, hereinafter referred to as “the GSO Networks”; and that it is necessary for the coordination process to be completed before the GSO system commences GMDSS services;

c) that this conference considered a revised radio regulatory framework for reflecting the frequencies for GMDSS on a provisional basis in Appendix 15 and Articles 5 and 33 of the Radio Regulations,

considering further

a) that the GSO Networks currently operate using frequency assignments recorded in the Master International Frequency Register under No. 11.41 (see Annex 1);

b) that the primary mobile-satellite service (MSS) allocations in the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz and 2 483.59-2 499.91 MHz are also used by non-GSO MSS systems and radiodetermination-satellite service (RDSS) systems operating in the same recognized service area, and that further coordination is required with these notified satellite systems and networks as identified in accordance with No. 9.27;

c) the potential impact of coordination outcomes and technological advancements on the identification of frequencies for GMDSS safety services by the GSO Networks,

¹ The system described here refers to BeiDou Message Service System as recognized by IMO for use in GMDSS.

noting

- a) that regulatory provisions for the frequency coordination and notification of any satellite network and system are contained in Articles **9** and **11**;
- b) that several other satellite systems have satisfied the provisions of Articles **9** and **11** and operate in the same frequency bands;
- c) the ongoing coordination being conducted by the GSO Networks and relevant non-GSO systems, in accordance with Article **9** and relevant Rules of Procedure;
- d) that it is necessary for the notifying administration of the GSO Networks to address issues with respect to related assignments identified under No. **9.27** before the commencement of the GMDSS service (i.e. to achieve compatibility between relevant systems and resolve identified harmful interference issues),

recognizing

- a) that the GSO Networks need to be coordinated under Nos. **9.7** and **9.11A**;
- b) that the GSO Networks shall not cause harmful interference to, or claim protection from, the frequency assignments which are the basis of unfavourable findings until frequency coordination and notification is completed;
- c) that non-GSO systems with an earlier date of protection and operating in the same frequency bands as the GSO Networks are experiencing harmful interference as reported in ITU2023-63161 (received on 17.08.2023), USA2023-63567 (received on 14.09.2023), F2023-63644 (received on 25.09.2023), USA2023-64675 (received on 15.11.2023), F2023-64822 (received on 23.11.2023), and F2023-64912 (received on 30.11.2023),

recognizing further

- a) that successful completion of coordination with all necessary satellite systems ensures reliable operation of a GMDSS service;
- b) that systems in the GMDSS should be protected from harmful interference to ensure safety of life at sea,

resolves

- 1 that the provisions of this Resolution apply only to the GSO Networks as recognized for use in the GMDSS system identified in *considering b*);
- 2 that any identified harmful interference shall be eliminated;
- 3 that the GSO Networks shall successfully complete coordination of their frequency assignments with the relevant non-GSO systems in *considering further b*) in accordance with Articles **9** and **11** prior to the commencement of GMDSS services;
- 4 that the coordination of frequency assignments used for GMDSS services by the GSO Networks shall only be considered as completed after the corresponding remarks and indication relating to assignments for which an unfavourable finding had led to its recording under No. **11.41** are removed according to No. **11.41B**;

5 that a review of the frequency bands in Nos. 5.368, 5.372A, Article 33 and Appendix 15 in the Earth-to-space direction for GMDSS shall be conducted at the first world radiocommunication conference following the completion of coordination as referenced in *resolves* 3 to determine the relevant frequency band;

6 that the regulatory provisions referred to in *considering c)* shall enter into force as of the date of successful completion and fulfilment of *resolves* 1 to 5 above,

urges the administrations responsible for the respective satellite filings

1 to make the utmost effort to eliminate any harmful interference and engage in frequency coordination with other administrations concerned, in order to complete coordination before WRC-27;

2 to submit reports on the resolution of any identified harmful interference and on frequency coordination progress to the Radiocommunication Bureau before WRC-27;

3 to cooperate to address any potential issues related to the coordination of RDSS in the frequency band 2 483.5-2 500 MHz,

instructs the Director of the Radiocommunication Bureau

1 to report to WRC-27 the status of the implementation of this Resolution and any potential difficulties;

2 to follow, to the extent practical, the progress of frequency coordination between the administrations involved and to take appropriate measures within the mandate of the Bureau in order to assist in the implementation of this Resolution;

3 to publish ITU circular letters to confirm that frequency coordination has completed between all relevant administrations in accordance with *resolves* 3,

instructs the Secretary-General

to bring this Resolution to the attention of the IMO and other relevant international and regional organizations.

ANNEX 1 TO RESOLUTION 365 (WRC-23)

List of geostationary satellite network filings associated with the GSO networks

Orbital position	Satellite network	Special section (the service link of BDMSS)
58.75° E	COMPASS-58.75E	CR/C/798 MOD-1 CR/C/798 MOD-2 Part II-S
80° E	CHINASAT-31	AR11/C/2674 Part II-S
	COMPASS-80E	CR/C/799 MOD-5 Part II-S
110.5° E	CHINASAT-33	AR11/C/2676 Part II-S
	COMPASS-110.5E	CR/C/800 MOD-1 CR/C/800 MOD-2 Part II-S
140° E	CHINASAT-32	AR11/C/2675 Part II-S
	COMPASS-140E	CR/C/801 MOD-1 CR/C/801 MOD-2 Part II-S
160° E	COMPASS-160E	CR/C/1526 MOD-1 CR/C/1526 MOD-2 Part II-S