



Indonesia's Preparation for WRC-19

ITU International Satellite Symposium 2016
Bali, Indonesia, 7 September 2016

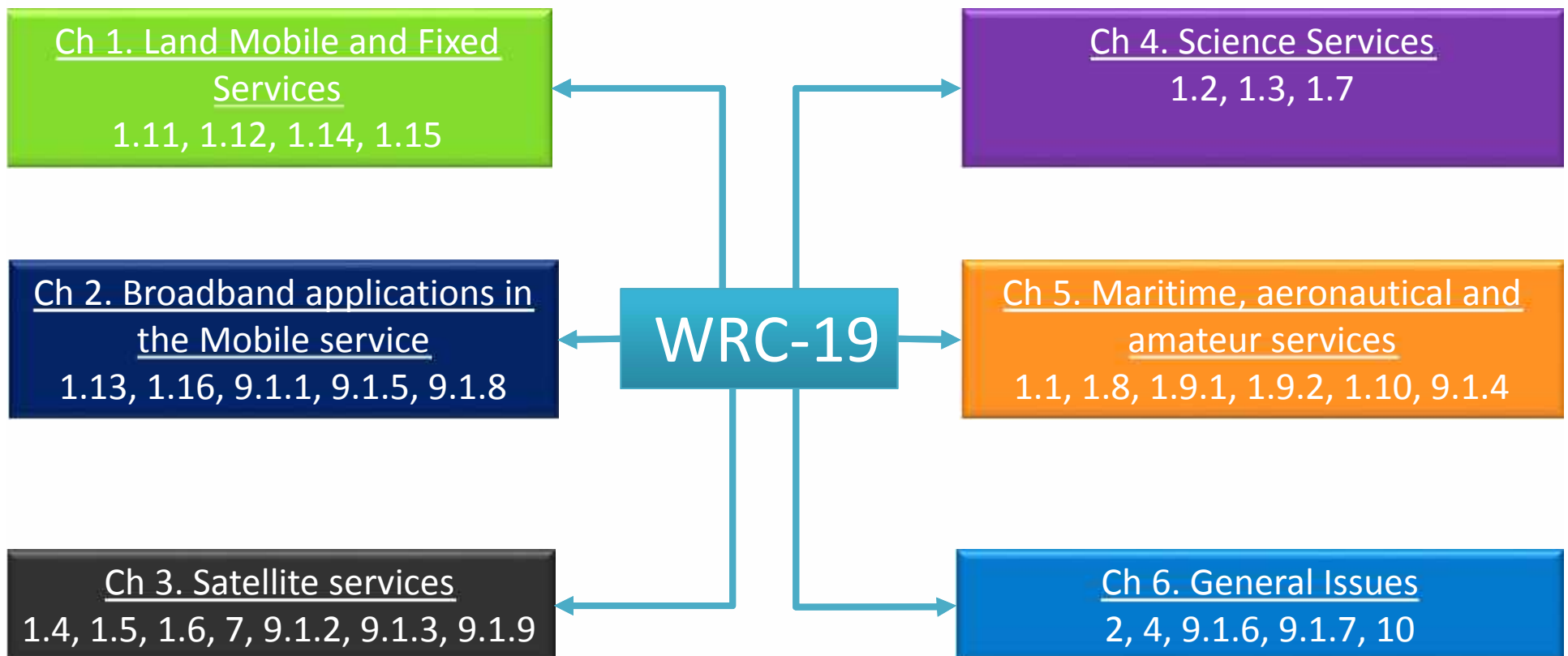
World Radiocommunication Conference (WRC)

- World Radiocommunication Conference (WRC) are held every four years.
- The purpose of WRC are to review, and, if necessary, revise the [Radio Regulations](#), the international treaty governing the use of the radio-frequency spectrum and the geostationary-satellite and non-geostationary-satellite orbits.

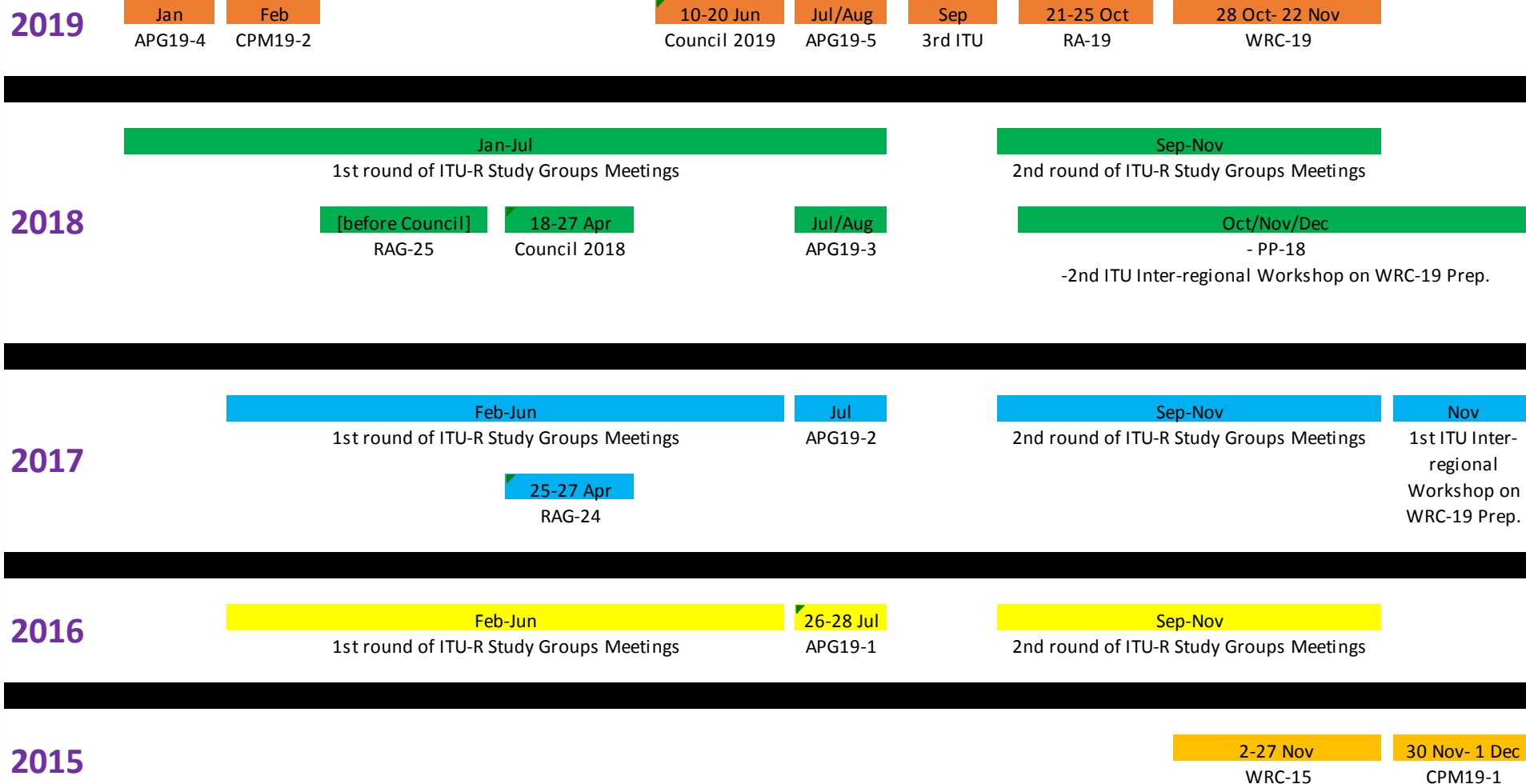


Agenda Items of WRC-19

- Resolution 809 (WRC-15): Agenda for WRC-19
- Agenda items of WRC-19
 - Specific: 17 agenda (1.1 to 1.16)
 - Standing: 11 agenda (2 to 10)
- CPM19-1 (30 Nov-1 Dec 2015) has agreed on the structure of CPM Report



Timeline toward WRC-19



Indonesia's Considerations on Agenda Item 1.4

to consider the results of studies in accordance with Resolution 557 (WRC-15), and review, and revise if necessary, the limitations mentioned in Annex 7 to Appendix 30 (Rev.WRC-15), while ensuring the protection of, and without imposing additional constraints on, assignments in the Plan and the List and the future development of the broadcasting-satellite service within the Plan, and existing and planned fixed-satellite service networks

Considerations

- In accordance with AP30, the BSS planned allotment for Indonesia are in 80.2E dan 104.0E.
- Any changes to the Annex 7 of AP30 shall ensure the protection and without any additional constraint to the existing and future use of planne band

ANNEX 7

Critical position limitations

In applying the provisions of Article 4 of the proposed modifications to the Region 1 Plan proposed new or modified assignments in the Regions 1 and 3 List, administrations should use the following criteria:

The broadcasting satellite serving an area in Region 1 and using a frequency in the band 11.7-12.2 GHz shall occupy a nominal orbital position further west than 172° W or further east than 149° E.

No broadcast-satellite serving an area in Region 1 shall maintain an orbital position at times that are listed in the Region 1 Plan which occupy a nominal orbital position:

- to further east than 14° W in the band 11.7-12.7 GHz, or
- to further east than 44° W in the band 11.7-12.5 GHz, or
- to further west than 172.2° W in the band 11.7-12.7 GHz.

By the date of issuance of the Region 1 Plan (30 June 2015)

437

APPENDIX

However, modifications necessary to resolve possible incompatibilities during the implementation of the Region 1 and 3 Inter-link Plan into the Radio Regulations shall be permitted.

1) The purpose of the following orbital position and frequency assignments is to prevent losses in the geostationary-satellite orbit by the Region 1 fixed-satellite services in the band 11.7-12.5 GHz. Within the orbital arc of the geostationary satellites orbit between 172° W and 149° E, the orbital positions associated with any proposed new or modified assignments in the Regions 1 and 3 List of additional uses shall be within one of the portions of the orbital arc listed in Table 1. The width of each assignment shall not exceed 50 MHz, except as the positions listed in Table 1.

TABLE 1

Orbital positions of the orbital arc between 172° W and 149° E for new or modified assignments in the Regions 1 and 3 Plan and List

Orbital position	172° W	163° W	154° W	145° W	136° W	127° W	118° W	109° W	100° W	91° W	82° W	73° W	64° W	55° W	46° W	37° W	28° W	19° W	10° W	1° W	8° E	17° E	
Proposed new or modified assignments in the List which require the orbital position shall not exceed the greater of the lesser limit 141 MHz (or 174 MHz) or any point in Region 1																							

TABLE 2

Orbital positions in the orbital arc between 172° W and 149° E in which the width of any assignment shall not exceed 50 MHz

Orbital position	172° W	163° W	154° W	145° W	136° W	127° W	118° W	109° W	100° W	91° W	82° W	73° W	64° W	55° W	46° W	37° W	28° W	19° W	10° W	1° W	8° E	17° E	
Proposed new or modified assignments in the List which require the orbital position shall not exceed the greater of the lesser limit 141 MHz (or 174 MHz) or any point in Region 1																							

2) The Region 1 Plan is based on the grouping of the space stations in nominal orbital positions of ±0.2° from the centre of the cluster of satellites. Administrations may locate their satellites within a cluster at any orbital position within that cluster, provided that within the spectrum of administrative-bearing assignments no space station in the same cluster (see 4.1.1.1 of Annex 1 to Appendix 30A).

Indonesia's Consideration on Agenda Item 1.6

to consider the development of a regulatory framework for non-GSO FSS satellite systems that may operate in the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space), in accordance with Resolution 159 (WRC-15)

Consideration

- Currently, no Indonesian satellite networks submitted to ITU in 37.5-39.5 GHz, 39.5-42.5 GHz, 47.2-50.2 GHz and 50.1-51.4 GHz frequency bands
- There is plan to use the frequency band 37-39.5 GHz for microwave link in Indonesia.
- Indonesia will follow the development of study in ITU

Indonesia's Consideration on Agenda Item 9.1 Issue 9.1.3

Study of technical and operational issues and regulatory provisions for new non-geostationary-satellite orbit systems in the 3 700-4 200 MHz, 4 500-4 800 MHz, 5 925-6 425 MHz and 6 725-7 025 MHz frequency bands allocated to the fixed-satellite service

Consideration

- In Indonesia, 3700-4200 MHz and 5925-6425 MHz frequency bands are used for FSS using GSO satellite
- There is plan to use the 4500-4800 MHz and 6725-7025 MHz frequency bands for FSS planned band
- The study shall ensure the protection of the existing and future use of GSO satellite in C band

Lessons learned from WRC-15 for WRC-19 preparation

Following and attending, if possible, all of the WP meetings will help the administrations to understand the development of the study on agenda items

Attending the 2nd CPM meeting will give better understanding of the situation during discussion and the content of CPM Report

Submit the proposal for agenda items in WP, the 2nd CPM, and regional group preparation meetings

Cooperate together with other administrations and stakeholders

Keep the consensus spirit during the discussion



Thank you
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