

RECOMMENDATION ITU-R BO.1297*

**PROTECTION RATIOS TO BE USED FOR PLANNING PURPOSES IN
THE REVISION OF THE APPENDICES 30 (Orb-85) AND 30A (Orb-88)
PLANS OF THE RADIO REGULATIONS IN REGIONS 1 AND 3**

(Question ITU-R 85/11)

(1997)

The ITU Radiocommunication Assembly,

considering

- a) that Resolution 531 (WRC-95) of the World Radiocommunication Conference (Geneva, 1995) invites the ITU-R to study the possibilities to improve the efficiency of the Appendices 30 (Orb-85) and 30A (Orb-88) of the Radio Regulations (RR) Plans by taking due account of the technological progress;
- b) that WRC-95 has adopted in Recommendation 521 (WRC-95) overall aggregate protection ratios;
- c) that protection ratios are essential characteristics for the planning of the broadcasting-satellite service (BSS) and the associated feeder links;
- d) that the RR Appendices 30 (Orb-85) and 30A (Orb-88) Plans have been developed by using values of protection ratio based on fixed frequency offsets of 19.18 MHz and analogue signals;
- e) that the existing RR Appendices 30 (Orb-85) and 30A (Orb-88) Regions 1 and 3 protection ratios are no longer appropriate due to technological improvements made in the BSS;
- f) that measured data in support of an improvement of the protection ratios are available,

recommends

- 1** the use of the aggregate protection ratio provided in Annex 1 below, for planning purposes in the revision of RR Appendices 30 (Orb-85) and 30A (Orb-88) Plans in Regions 1 and 3.

ANNEX 1

**Aggregate protection ratios to be used for planning purposes in the revision of
RR Appendices 30 (Orb-85) and 30A (Orb-88) Plans in Regions 1 and 3**

	Co-channel protection ratio (dB)	Adjacent channel protection ratio (dB)
Feeder link path	30	22
Down link path	24	16
Overall path	23	15

* The Administrations of Saudi Arabia, the Islamic Republic of Iran and Syria reserved their position on the acceptance of this Recommendation until such time as they know precisely what were the reasons for the reduction in the protection ratio from 30 dB to 22 dB and who benefited from that reduction.