

Al 1.2 – Smaller FSS earth stations in 13.75-14.0 GHz

- Radiolocation services are currently used worldwide by shipborne, airborne and ground-based radars in these bands
- To constrain interference towards radiolocation service, current minimum FSS earth station size (diameter) allowed by Radio Regulations:
 - GSO networks 1.2 m with a PFD limit for earth stations between 1.2 m 4.5 m
 - NGSO systems 4.5 m
- Studies to be conducted on reducing the earth station size:
 - Impact on radiolocation service of smaller FSS terminals
 - > Higher deployments of FSS earth stations
 - Aggregate interference from both GSO networks and NGSO systems
 - Impact on NGSO-NGSO sharing environment
 - Smaller terminals with wide beamwidth can constrain look angles for NGSO systems, particularly when very large NGSO systems are involved

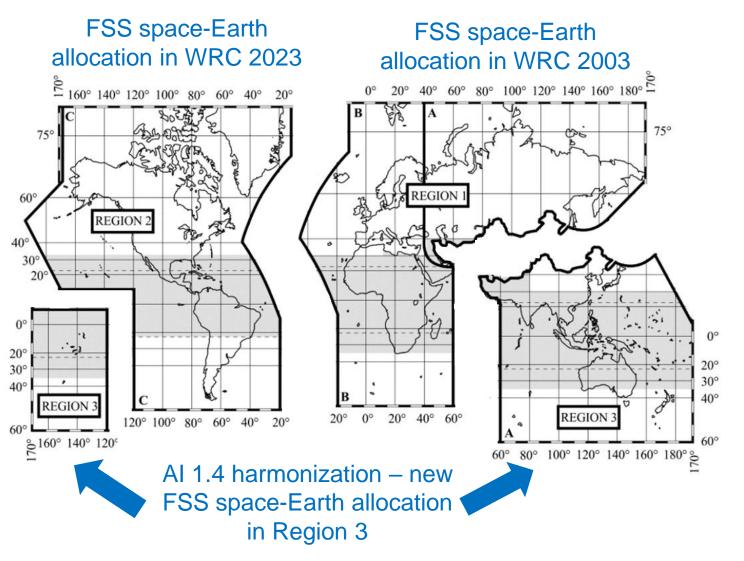


Al 1.4 – New FSS allocation in R3 in 17.3-17.7 GHz and application of EPFD limits

- > There is growing demand for broadband satellite services throughout Asia Pacific
- > Existing global FSS allocation in 17.7-20.2 GHz band already being used widely for many kind of services, including satellite internet
- > Expanding this FSS allocation by 400 MHz would add contiguous spectrum in Region 3 for gateways and user terminals and immediately produce a positive service offering to users in the Region



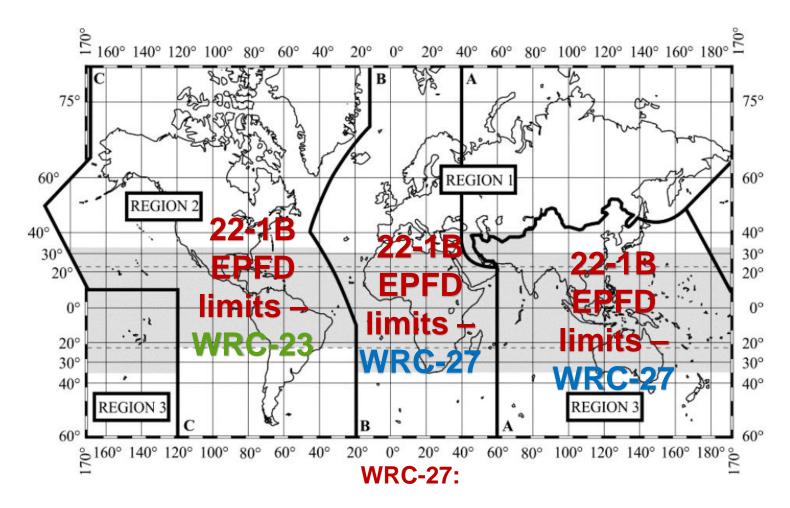
Al 1.4 – New FSS allocation in R3 in 17.3-17.7 GHz and application of EPFD limits





Harmonisation of technical conditions

- Allocation in Region 1 was made on the basis of No. 22.2 (NGSO systems shall not cause unacceptable interference to GSO networks)
- Allocation to Region 2 included EPFD limits from Table 22-1B (single-entry)
- Common technical conditions needed across all three region for efficient operation of both global GSO networks and NGSO systems
 - 17.8-18.6 GHz single-entry EPFD limits should be extended to 17.3-17.7 GHz in both region 1 and region 3
 - Aggregate EPFD limits from Resolution 76 should be applied in all three regions





Aggregate EPFD limits in 17.8-18.6 GHz in Resolution 76 should be extended to



17.3-17.7 GHz

