

RESOLUTION 405

Relating to the use of frequencies of the aeronautical mobile (R) service¹

The World Administrative Radio Conference (Geneva, 1979),

considering

- a)* that WARC-Aer2 adopted and developed a new Frequency Allotment Plan for the use of HF channels for the aeronautical mobile (R) service (Appendix 27);
- b)* that air operations are subject to continuous changes;
- c)* that these changes require attention by the administrations concerned; but
- d)* that, in seeking to satisfy new communication requirements, no decision should be taken that will prevent or handicap the coordinated utilization of those high frequency aeronautical mobile (R) band allotments as prescribed in the Plan;
- e)* that the families of frequencies allotted to the major world air route areas (MWARAs), regional and domestic air route areas (RDARAs) and sub-areas and VOLMET areas have been chosen considering propagation conditions which allow for the selection of the most suitable frequencies for the distances involved;
- f)* that specific steps should be taken to ensure that the correct order of frequency is used;
- g)* that it is essential to distribute the communication traffic load as uniformly as possible over the frequencies available;
- h)* that frequencies have been allotted for worldwide use,

resolves

that administrations, individually or in collaboration, take the necessary steps:

- 1 to make as great a use as possible of higher frequencies in order to lessen the load on the HF aeronautical mobile (R) bands;
- 2 to make as great a use as possible of antennas of appropriate directivity and efficiency in order to minimize the possibilities of mutual interference within an area or between areas;
- 3 to coordinate the use of families of frequencies necessary for a given route segment in accordance with the technical principles in Appendix 27 and in the light of the propagation data available, to ensure that the most appropriate frequencies are used with an aircraft at a given distance from the aeronautical station providing service over the route segment concerned;
- 4 to improve operating techniques and procedures and to use equipment which will make it possible to attain the highest possible efficiency in handling air-ground HF communications;

¹ WRC-97 made editorial amendments to this Resolution.

RES405-2

5 to collect precise data on the operation of their HF communication systems, particularly data having a bearing on technical and operating standards, so as to facilitate re-examination of the Plan;

6 to establish, through regional arrangements, the best method of providing the communications required for any new long-distance international or regional air operation which is not or cannot be accommodated within the system of MWARA and RDARA, in such a manner as not to cause harmful interference to the utilization of frequencies as prescribed in the Plan.