

REPEATER CO-ORDINATION: COVERAGE PRESENTATION**1. Introduction**

In the event that signals of repeaters or other un-manned stations could cause interference beyond the boundaries of the country in which they are operating, all designers, constructors and other persons responsible for such stations are obliged to contact the VHF-UHF-SHF Managers of the neighbouring countries concerned, in order to avoid such interference by coordinating channel use.

As far as Austria is concerned, the VHF Manager entered all areas from where repeaters might be operated on a map, so that all repeater problems could be easily be discussed and solutions found. A copy of such a map, a description of the methods used to prepare such a map, as well as proposed general rules for the use of repeaters are given below.

2. General rules for operating via repeaters

Users of repeaters shall limit their transmissions to the shortest necessary time and the stations in QSO shall not start their transmission before having left some time to give other stations a chance to make "distress calls", if necessary.

3. Recommended methods to prepare coverage map

Attached as fig. 1 is an example map showing repeater coverage from some locations in Austria. The entries should be made in accordance with CCIR recommendation 370-1.

A full line designates the area where during at least 50 % of the time contacts via repeaters can be made by a mobile station, running 10 Watts into a 5/8 wavelength vertical antenna.

A dotted line designates the area where during 50 % of the time a fixed station with an effective radiated power of 100 Watts can operate via the repeater.

All locations from where under extraordinary conditions contacts could be made (e.g. mountain tops) should also be entered.

For the above delineations normal propagation conditions should be taken; contact possibilities via rare tropospheric conditions or sporadic-E reflections shall be disregarded.

The person(s) responsible for the planned repeater shall prepare a map according to the method outlined above. This map shall be sent to the national VHF Manager for further (international) co-ordination.

(From document M/T 59, submitted by OeVSV at the IARU Region I Conference in Miskolc-Tapolca, 1978)

