

Draft CEPT Brief on agenda item 7.1 (Definition of HEO).

Issue

Definition of HEO.

Preliminary CEPT position

CEPT considers that a definition of HEO shall not be included in Article 1 of the RR. The term HEO should better be included and characterised in Recommendation ITU-R S.1758. Consequentially, no changes to the RR are necessary.

Background

In ITU-R, the following question has been debated:

Does HEO denote a highly elliptical orbit or just a high orbit above the earth (in either case, is the orbit also assumed to be inclined with respect to the equatorial plane?) or a highly inclined earth orbit - but what is “high”?

This issue was discussed at length under WRC-03 Agenda Item 1.37 and no conclusion was reached on the definition of HEO satellite systems.

WP 4A concluded that descriptions of HEO are radio-service specific, and that any description of FSS HEO type non-GSO systems must include both orbital and operational characteristics which are too long and detailed for a definition in RR Article 1. For the purpose of sharing studies, WP 4A produced Recommendation S.1758 which characterises HEO-type systems in the FSS. Therefore, it is concluded that there is no need to modify RR Article 1 to define HEO and that the general statement "HEO systems are a subcategory of non-GSO systems", as contained in the CPM Report to WRC-03, is still valid.

List of relevant documents

CPM report to WRC-03 (Chapter 3 §3.7)

Actions to be taken

For CEPT Administrations, to review ITU-R Recommendations currently in force that refer or pertain to what are referred to in this Recommendation as HEO (or HEO type) non-GSO FSS systems, for consistency with the characterizations and terminology used in Recommendation ITU-R S.1758, and to identify possible future revision as necessary or appropriate.

Preliminary positions from organizations outside CEPT

TBD