

**PROPOSED ADDITION TO WRC-15 AGENDA
(MODIFICATION TO COUNCIL RESOLUTION 1291)**

BACKGROUND:

Automatic Dependant Surveillance – Broadcast (ADS-B) is a terrestrial aeronautical monitoring system, broadcasting position, altitude, velocity, aircraft ID, and other related avionics information, enabling position determination and monitoring of aircraft and the safe airspace separation of aircraft by air traffic control management. The system is presently in use, as well as being implemented in a number of countries.

ICAO has developed Standards and Recommended Practices (SARP) for the ADS-B system, which broadcasts at the frequency 1090 MHz and occupies approximately 2 MHz of bandwidth, under an aeronautical mobile (route) service (AM(R)S) allocation. ADS-B signals are currently received by other aircraft and terrestrial stations on the ground within line-of-sight.

Presently, aircraft flying over oceanic and Polar Regions, remote areas, and other areas where terrestrial ADS-B stations are not deployed, do not have the opportunity to take advantage of the ADS-B system. They could however, be received by satellites under these circumstances, without changing the characteristics of the flight equipment.

In the lead up to WRC-12, the capability of space based ADS-B was not fully mature. Accordingly, during WRC-12 the requirement for consideration of an allocation to a satellite service for this purpose was not anticipated, and therefore no agenda item was pursued to have this matter considered at WRC-15.

Since WRC-12, several satellite systems have been considering the inclusion of ADS-B payloads on their new generation of satellite systems and ITU-R studies have progressed towards the expected conclusion that this allocation would not cause particular sharing difficulties with other services.

Also, the recent loss of Flight MH370 has spurred discussions on how to provide rapidly an appropriate response to facilitate search and rescue of aircraft worldwide. ITU should be responsive to this type of expectations.

PROPOSAL

It is therefore proposed that the Council considers the addition to WRC-15 Agenda of an item to address a receive-only uplink satellite allocation.

The following addition to Council Resolution 1291 is proposed:

ADD :

1.26 to consider a primary allocation to the aeronautical mobile-satellite (R) service (Earth-to-space) for space station reception of automatic dependant surveillance - broadcast (ADS-B) emissions from aircraft stations, limited to systems operating in accordance with recognised international aeronautical standards.