

Service Areas

This document illustrates the service areas for the uplink and downlink beams in the accompanying Schedule S.

F1

The F1 service area includes the majority central and eastern Russia plus some east Asia and is illustrated in Figure 1.

It reflects the service area for:

Uplink beams: F1H3 and F1V3

Downlink beams: F1H5, F1H7, F1V5, and F1V7



Figure 1 F1 Coverage of EXPRESS-AM5

F2

The F2 service area includes eastern Russia and northern Japan and is illustrated in Figure 2.

It reflects the service area for:

Uplink beams: F2H1, F2H2, F2UV1, and F2V2

Downlink beams: F2H6, F2H8, F2V6, and F2V8



Figure 2 F2 Coverage of EXPRESS-AM5

S1

The S1 service area is a steerable spot beam. There are two spot beams which are currently directed towards southeast Asia and northern Siberia and are illustrated in Figure 3 and Figure 4.

They reflect the service areas for:

Uplink beams: S1H2 and S1V2

Downlink beams: S1H8 and S1V8



Figure 3 S1 Coverage of EXPRESS-AM5 – Example #1



Figure 4 SI Coverage of EXPRESS-AM5 – Example #2