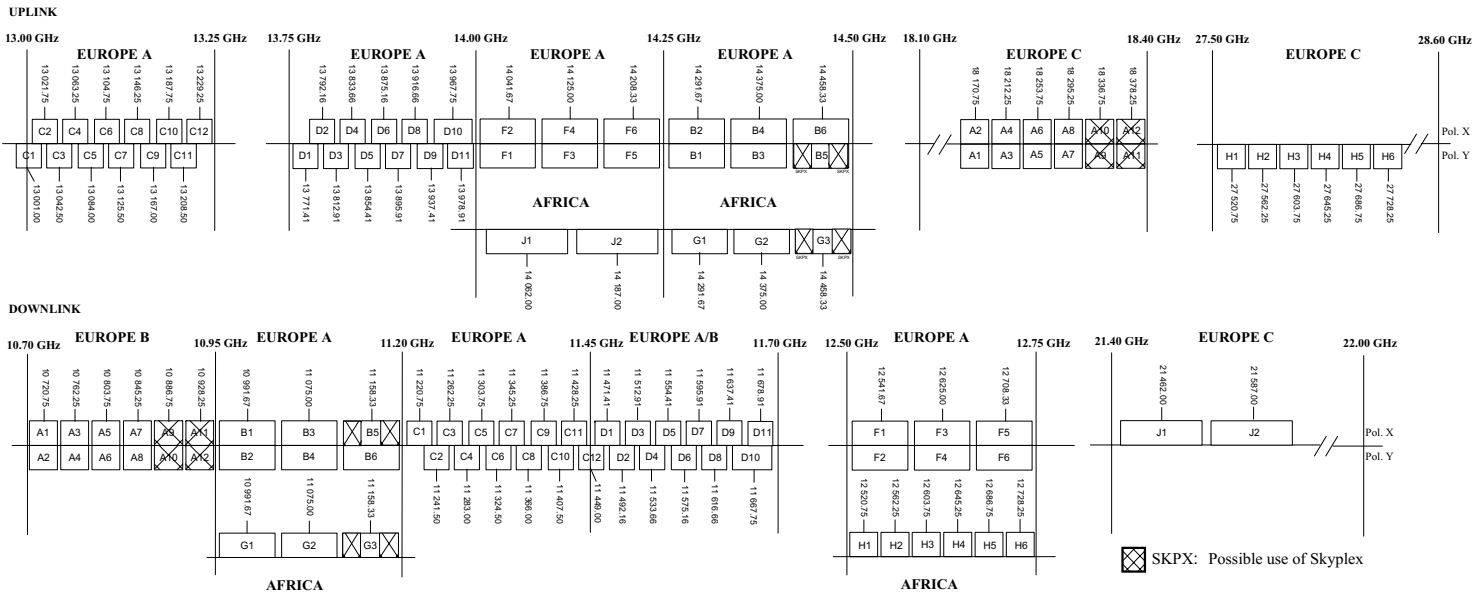


## Satellite Characteristics

	Parameter	Values
<b>General</b>	Satellite Manufacturer	Astrium
	Launch Date	16/03/2004
	Launch	Proton
	Projected Lifetime	>12 years
	Orbital Position	7°East
<b>Frequency Plan</b>	Operational Transponders	44
<b>Polarization</b>	Polarization	Dual linear Horizontal (X) and Vertical (Y)
	Polarization Discrimination	30 to 34 dB
<b>Transponder Gain</b>	Typical Operational Saturation IPFD Range <sup>a</sup>	$-(86 + X)$ to $-(77 + X)$ <sup>b</sup> $-(100 + X)$ to $-(80 + X)$ <sup>c</sup>
<b>Beacon</b>	Beacon 1: Frequency	11 699.80 MHz or 11 700.4 MHz
	Beacon 2: Frequency	12 500.50 MHz
	Beacon 3: Frequency	11 200.00 MHz
	Beacon 4: Ka Frequency	21 404.0 MHz
	Minimum EIRP	B1: 7.0 dBW, Widebeam B2 & B3: 8.0 dBW Global Coverage B4: 9.0 dBW, Widebeam coverage
	Polarization	Horizontal (X)

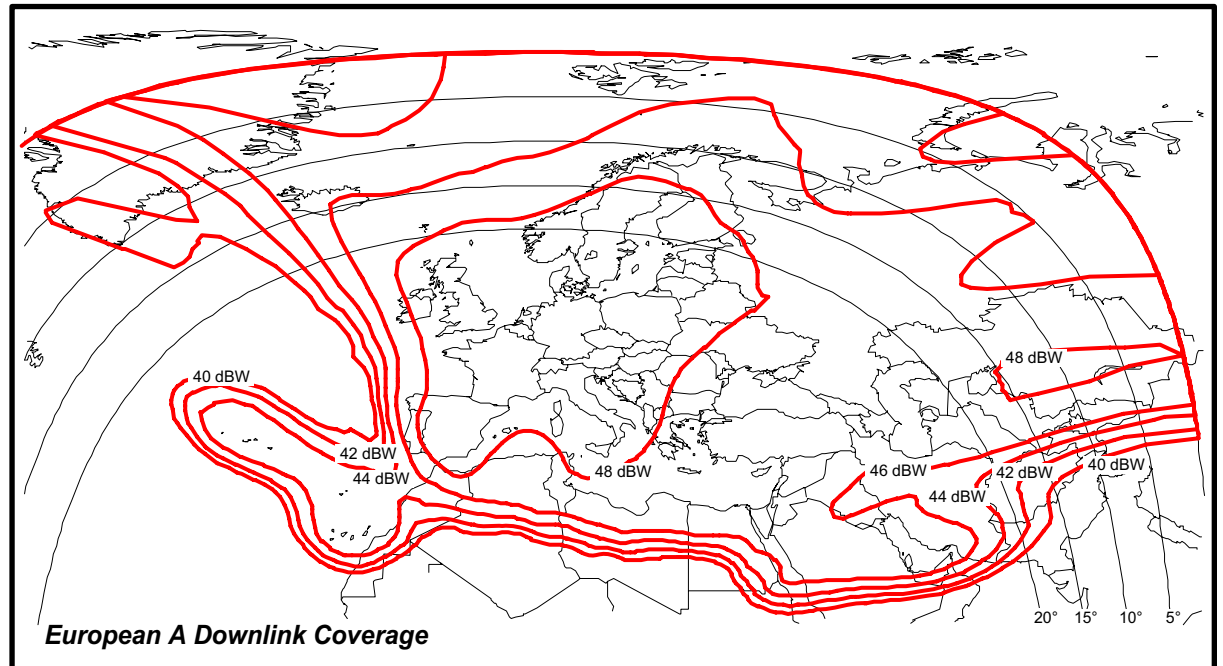
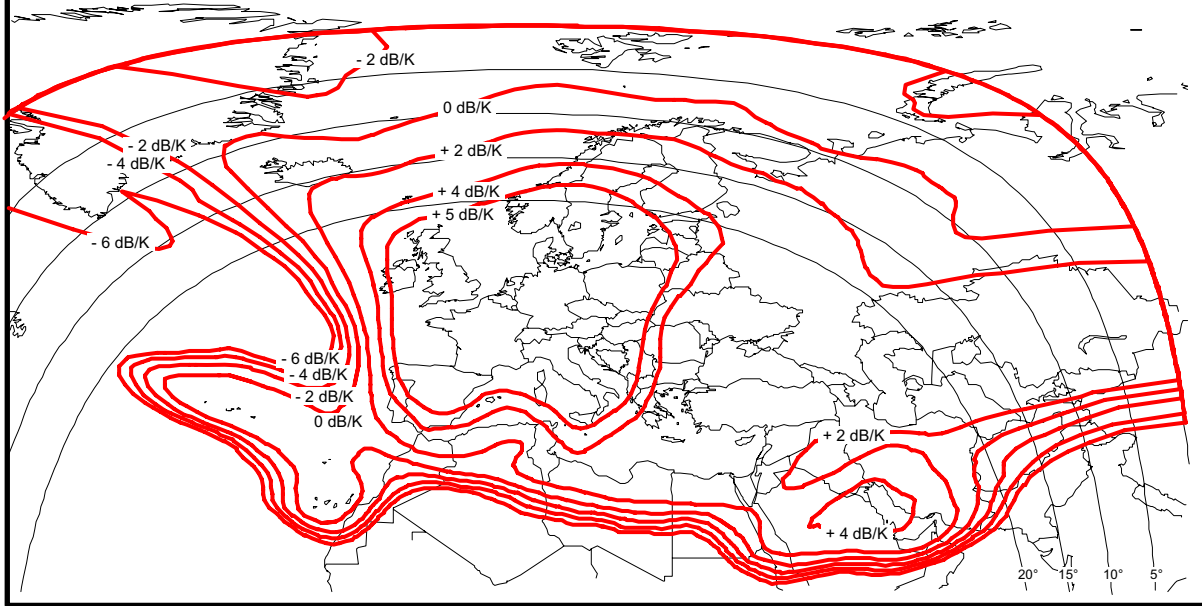


**NOTE:**

- 40 channels with a usable bandwidth of 36 MHz (Channels A1 to A12, C1 to C12, D1 to D9 and D11 and H1 to H6)
- 1 channel with a usable bandwidth of 49.5 MHz (Channel D10)
- 15 channels with a usable bandwidth of 72 MHz (Channels B1 to B6, F1 to F6 and G1 to G3)
- 2 channels with a usable bandwidth of 108 MHz (Channels J1 to J2)

a) In dBW/m<sup>2</sup>. X is the G/T in dB/K in the direction of the location considered.  
b) In Fixed Gain Mode (FGM).  
c) With Automatic Level Control (ALC).

European A Uplink Coverage



European A Downlink Coverage

