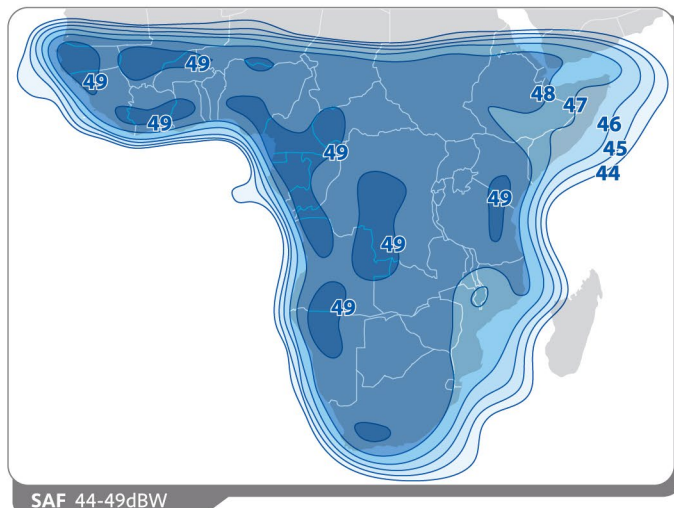
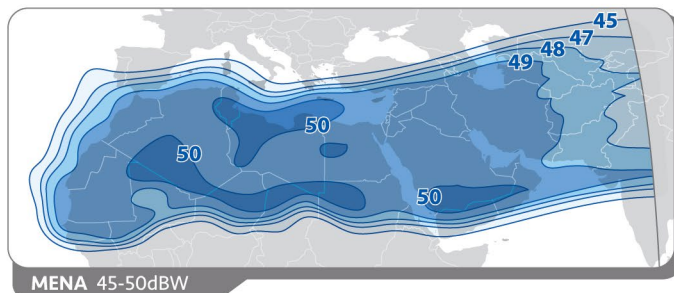
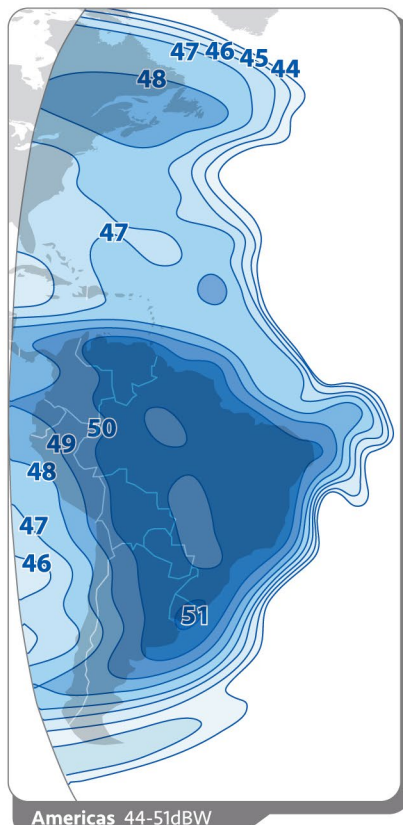
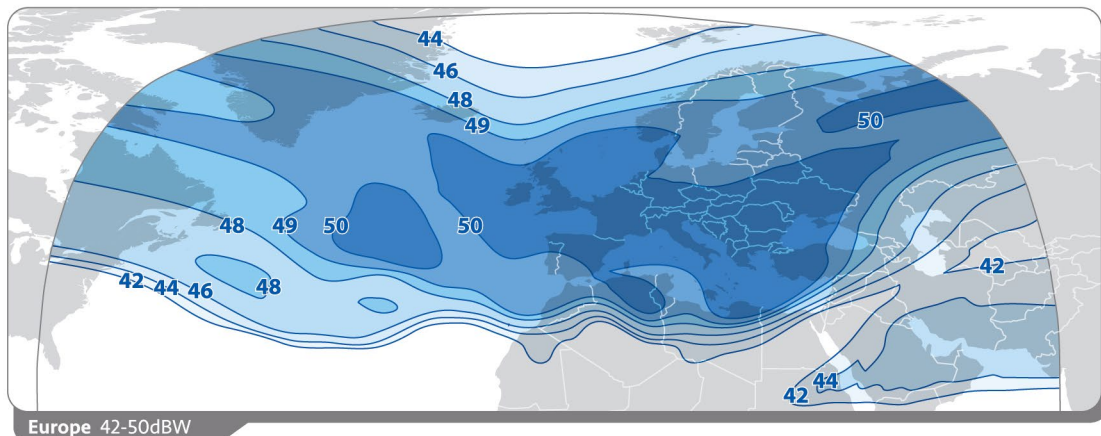


## KEY HIGHLIGHTS

- ABS-3A is a geostationary Boeing 702SP all-electric propulsion satellite
- An innovative and high-capacity satellite equipped with 48 x 72 MHz C & Ku-band transponders
- High-powered C and Ku-band beams offer expanded communications and broadcast capacity connecting the Americas, Europe, the Middle East and Africa at 3°W
- Flexible transatlantic connectivity enables transmissions from Eastern US directly to Western and Central Europe
- A pillar for high-profile broadcast contribution in MENA, Africa, Europe and the Americas
- A wide Ku-band European beam that extends from North America and across Europe providing optimal coverage for maritime and diverse media requirements such as Occasional Use and full-time DTT services
- Prime C and Ku-band payload capacity to support fast-growing video and broadband markets in South America
- ABS-3A services high-growth data, video, mobility and government applications

## KU-BAND BEAMS

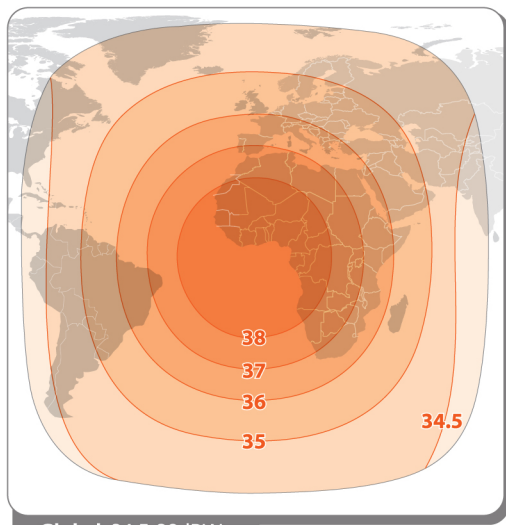


Ku-band Transponders:  
24 x 72 MHz

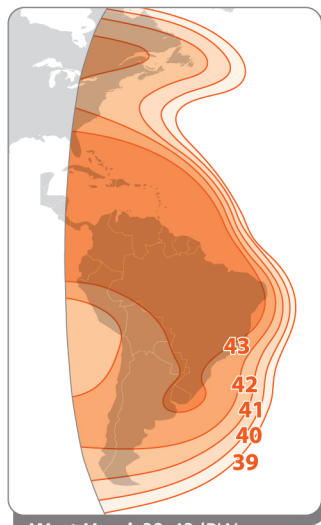
Polarization:  
Linear (H&V)

Uplink/Downlink Frequency:  
13.750 - 14.750 / 10.700 - 11.200,  
11.450 - 11.700 & 12.500 - 12.750 GHz

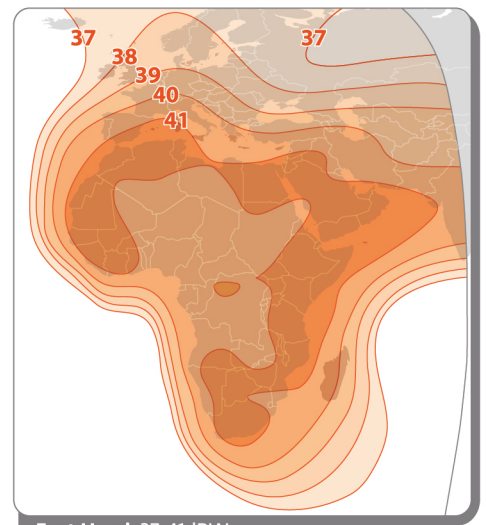
## C-BAND BEAMS



Global 34.5-38dBW



West Hemi 39-43dBW



East Hemi 37-41dBW

C-band Transponders: 24 x 72 MHz

Polarization: Linear (H&V)

Uplink/Downlink Frequency: 5.850 - 6.425 / 3.625 - 4.200 GHz

PARAMETER	C-BAND	KU-BAND
Number of Transponders	24	24
Transponder Bandwidth (MHz)	72	72
Uplink/Downlink Frequency (GHz)	5.850 - 6.425 / 3.625 - 4.200	13.750 - 14.750 / 10.100 - 11.200, 11.450 - 11.700 & 12.500 - 12.750
Uplink/Downlink Signal Polarization	Linear (H&V)	Linear (H&V)
EIRP (Peak Value) (dBW)	38 (Global) 43 (West Hemi) 41 (East Hemi)	51 (Europe) 51 (Americas) 50 (MENA) 49 (SAF)
G/T (Peak Value) (dB/K)	-4 (Global) 4 (West Hemi) 3 (East Hemi)	8 (Europe) 6 (Americas) 7 (MENA) 6 (SAF)
Uplink SFD (dBW/m <sup>2</sup> )	-80 to -100 (at -5 dB/K)	-76 to -98 (at -2.5 dB/K) (Europe and MENA) -76 to -98 (at -1.0 dB/K) (Americas) -76 to -98 (at -5.0 dB/K) (SAF)
Cross-Polarization Isolation (dB)	>27	>27
TWTA Redundancy	26 for 21 (can be operated up to 24)	24 for 19 (can be operated up to 24)
TWTA Size (Watts)	70	150