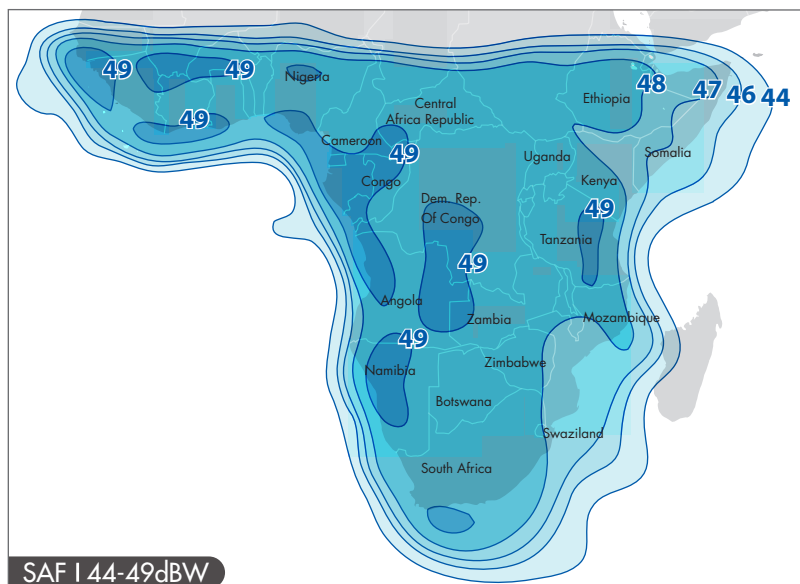
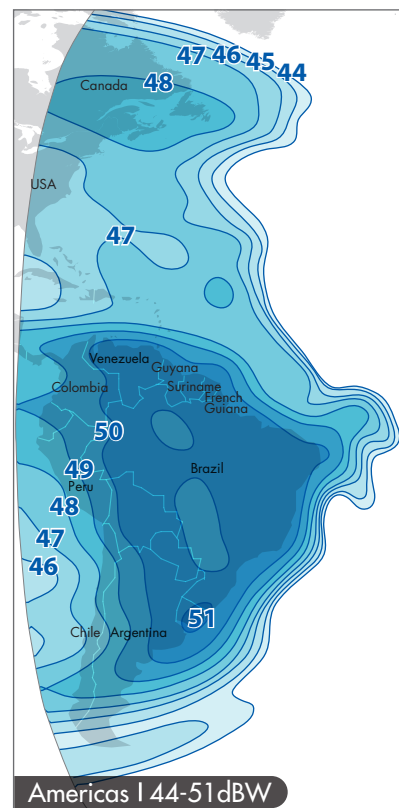
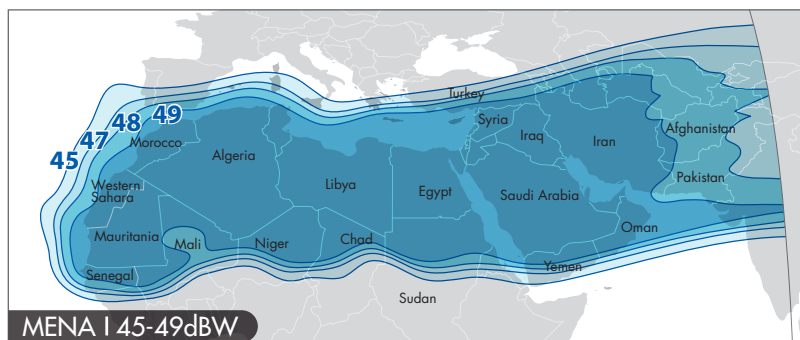
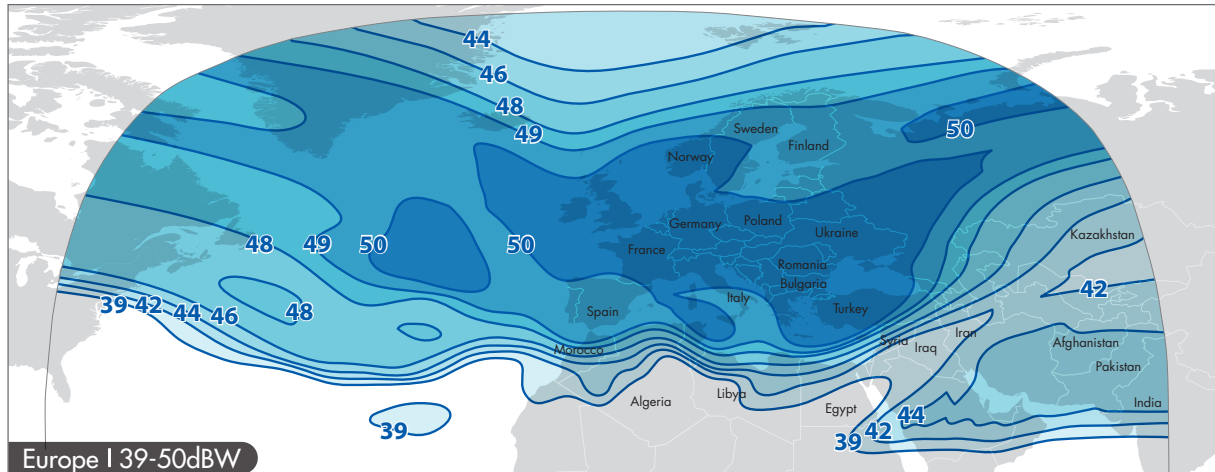


## ABS-3A KEY HIGHLIGHTS

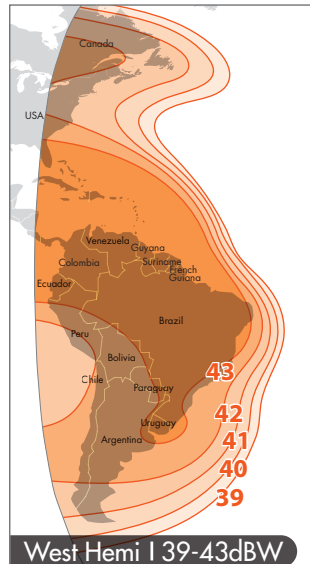
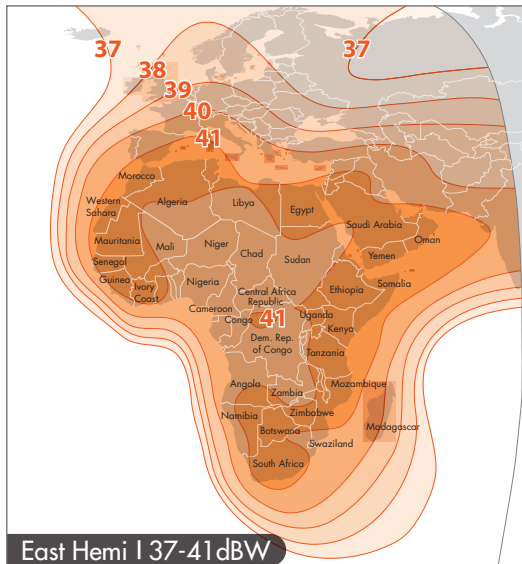
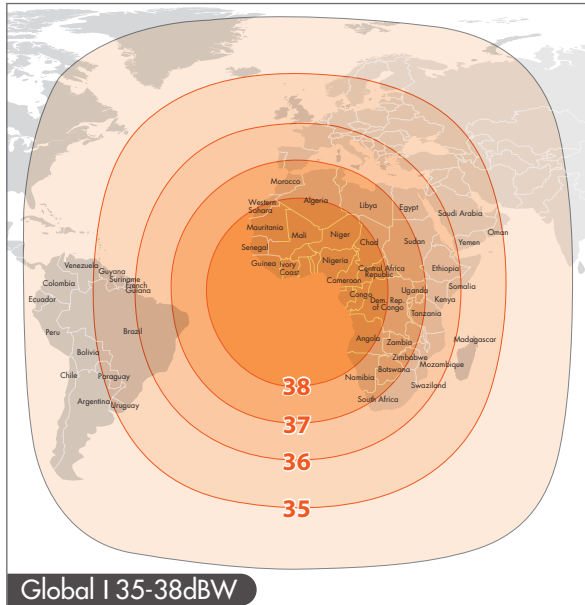
- ▶ ABS-3A is located at 3°W connecting the Americas, Europe, Africa and the Middle East
- ▶ It extends ABS' C and Ku-band coverage into the Atlantic Ocean Region
- ▶ Three C-band beams cover the Americas, the Middle East and Africa along with a global beam
- ▶ Four Ku-band beams cover Europe, MENA, South Africa and the Americas
- ▶ The satellite supports VSAT services, TV distribution, IP trunking, cellular backhaul and maritime services
- ▶ ABS-3A is a Boeing 702SP satellite (all-electric propulsion), launched on a SpaceX Falcon 9 in March 2015. It entered commercial service on 31st August 2015

## 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



C-Band Transponders: 24 x 72MHz 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 Frequencies (GHz)	5.850–6.425/3.625–4.200	13.750–14.750 / 10.700–11.200, 11.450–11.700, 12.500–12.750 GHz
Uplink/Downlink Signal Polarization	Linear (H&V)	Linear (H&V)
Cross-Polarization Separation (dB)	>27	>27
EIRP (Peak Value) (dBW)	38 (Global) 41 (East Hemi) 43 (West Hemi)	50 (Europe) 49 (MENA) 49 (SAF) 51 (Americas)
TWTA Size (Watts)	70	150
TWTA Redundancy	26 for 21 (can be operated up to 24)	24 for 19 (can be operated up to 24)
Receiver Redundancy	9 for 6	8 for 5
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 -5.0 dB/K) (SAF) -76 to -98 (at -1.0 dB/K) (Americas)
G/T (Peak Value) (dB/K)	-3.7 (Global) 3.3 (East Hemi) -0.4 (West Hemi)	8.5 (Europe) 7.2 (MENA) 6.7 (SAF) 6.6 (Americas)