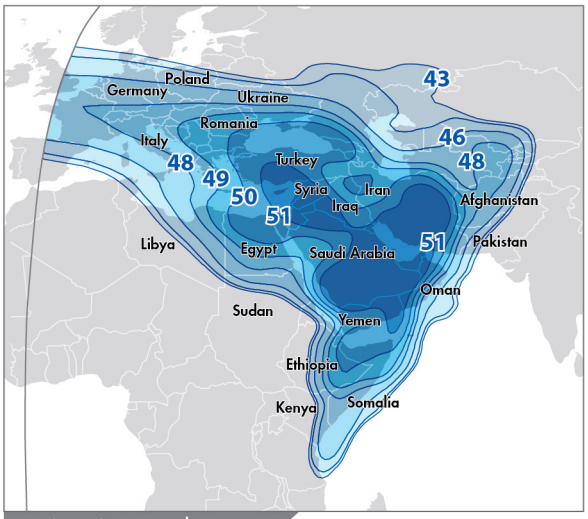
ABS-2

75°E

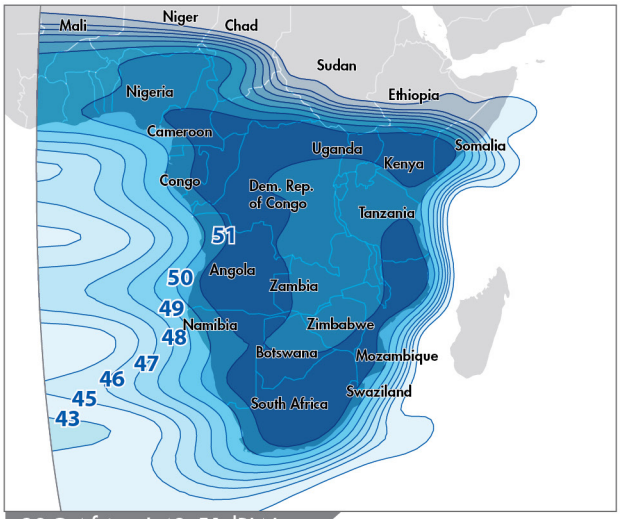
ABS-2 KEY HIGHLIGHTS

- ABS-2, a Space Systems/Loral FS 1300 satellite, was launched in February 2014.
- The satellite serves four continents across Asia, Europe, the Middle East, Africa, Russia and spanning to Australia.
- ABS-2 features six dedicated high-powered Ku-band beams for DTH services in the Eastern Hemisphere.
- Its industry leading high-powered C-band Global beam, along with Hemi beams, serves Africa and Asia Pacific connectivity requirements.
- Its Ka-band beam targets the MENA region and offers cost effective solutions for commercial and military applications.
- ABS-2 is suitable for delivery of video services, data and telecommunication networks, corporate networks, cellular backhaul, IP trunking, mobility and government/military services.

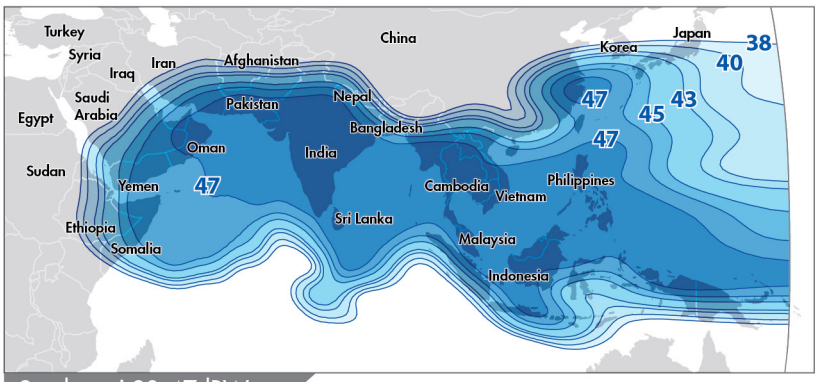
KU BAND BEAMS



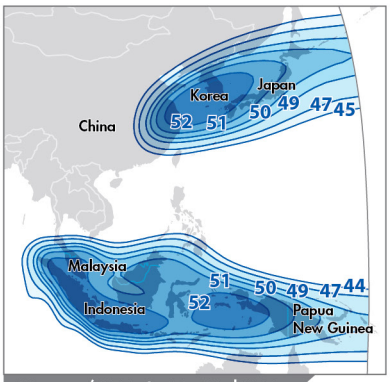
MENA I 43-51dBW



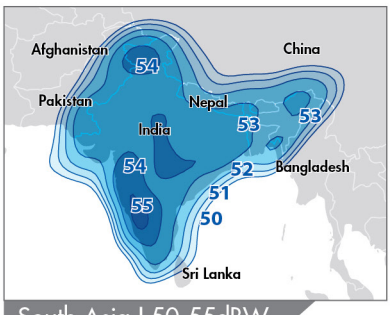
S&C Africa I 43-51dBW



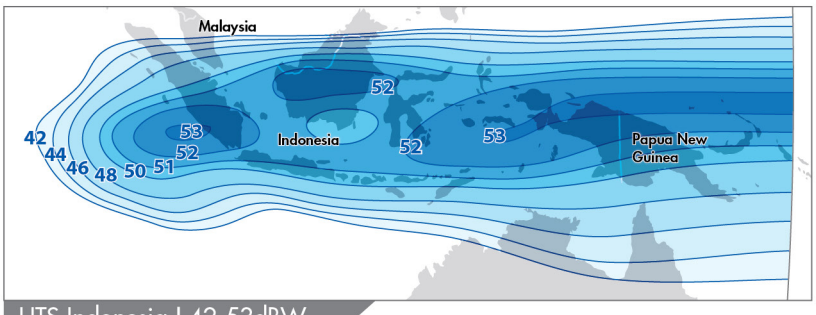
Southern I 38-47dBW



Korea/SEA I 44-52dBW



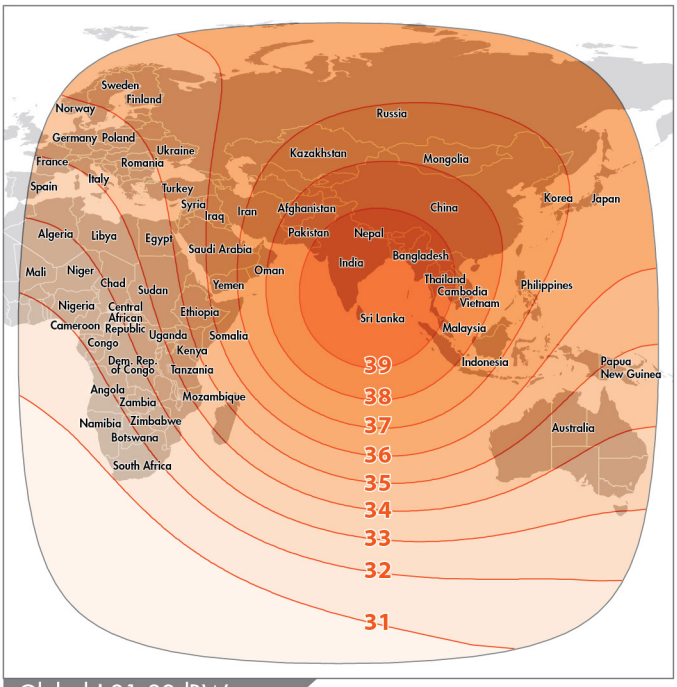
South Asia I 50-55dBW



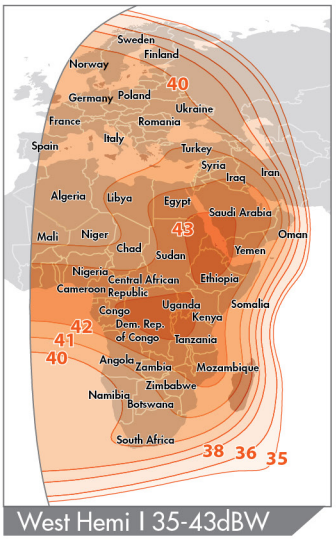
UTS Indonesia I 42-53dBW

Ku-Band Transponders: 51 (49 x 54 MHz and 2 x 108 MHz) Polarization: Linear (H&V)

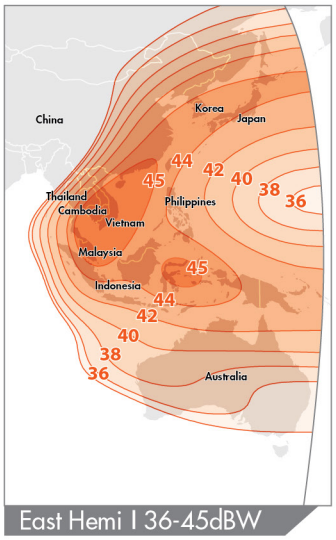
C BAND BEAMS



Global I 31-39dBW



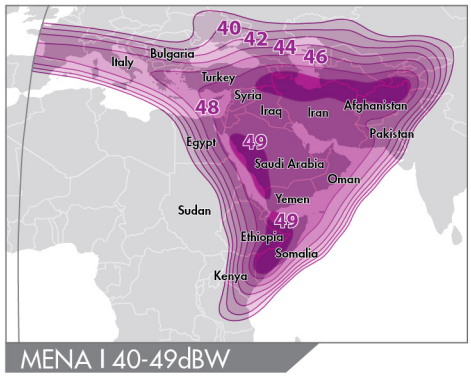
West Hemi I 35-43dBW



East Hemi I 36-45dBW

C-Band Transponders: 32 (8 x 36 MHz, 22 x 72 MHz & 2 x 104 MHz)
Polarization: Linear (H&V)

Ka BAND BEAM



MENA I 40-49dBW

Ka-Band Transponders: 6 (out of 4 x 435 MHz & 4 x 225 MHz)
Polarization: Circular (RHCP & LHCP)

PARAMETER	C BAND	Ku BAND	Ka BAND
Number of Transponders	Up to 32	Up to 51	Up to 6 (Commercial & Military bands)
Transponder Bandwidth (MHz)	36, 72 & 104	54 & 108	435 (Commercial) & 225 (Military)
Uplink/Downlink Frequency (GHz)	Standard & Extended C-bands	FSS & BSS Ku-bands	Commercial & Military bands
Uplink/Downlink Signal Polarization	Linear (H&V)	Linear (H&V)	Circular (RHCP & LHCP)
Cross-Polarization Isolation (dB)	Better than 27	Better than 27	Better than 27
EIRP (Peak Value) (dBW)	45	55	49
TWTA Size (Watts)	62	143	120
Installed TWTA	34	52	6
G/T (Peak Value) (dB/K)	6.9	8.9	4.6