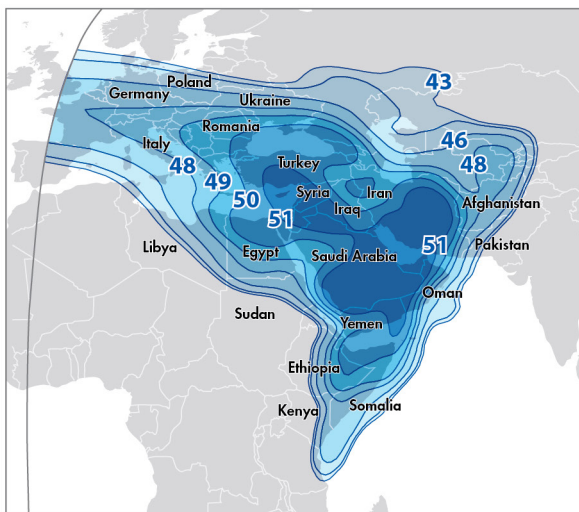




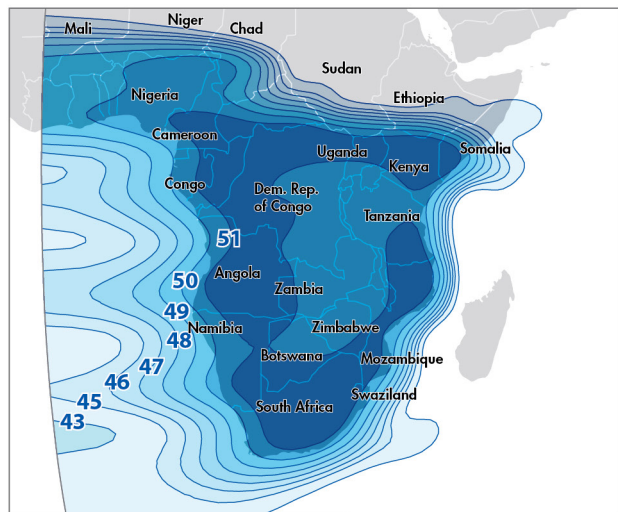
ABS-2 KEY HIGHLIGHTS

- 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.

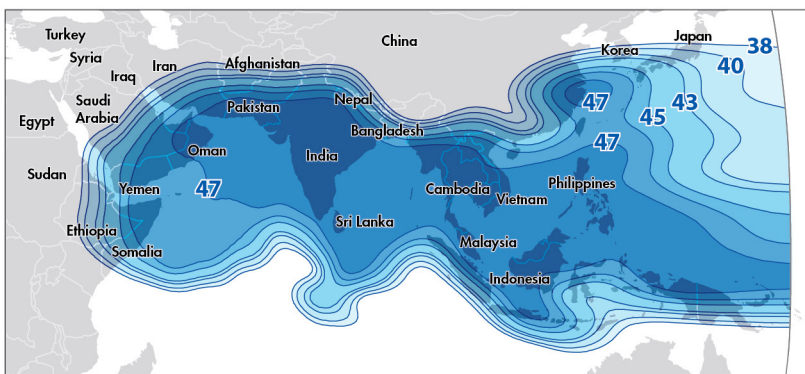
KU BAND BEAMS



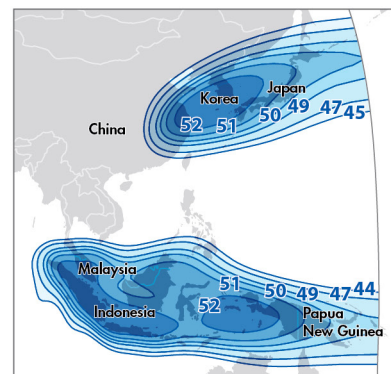
MENA | 43-51dBW



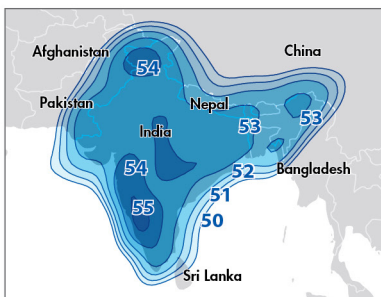
S&C Africa | 43-51dBW



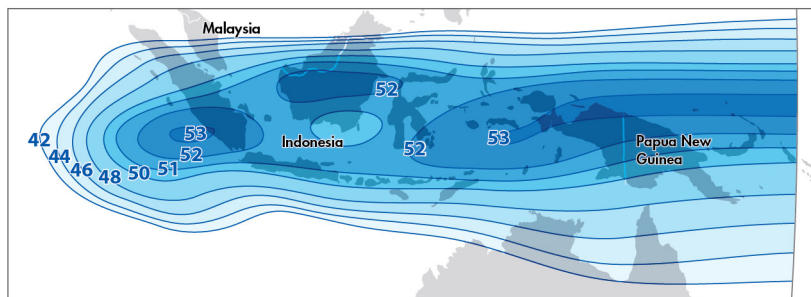
Southern | 38-47dBW



Korea/SEA | 44-52dBW



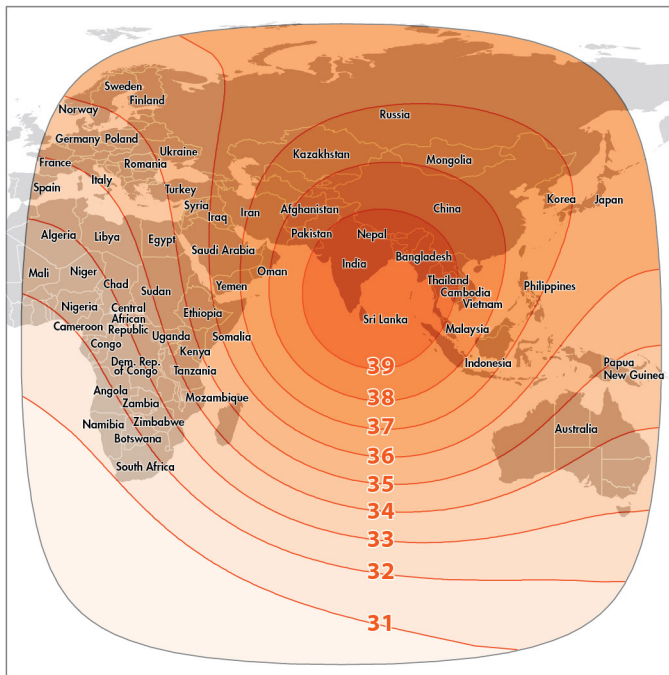
South Asia | 50-55dBW



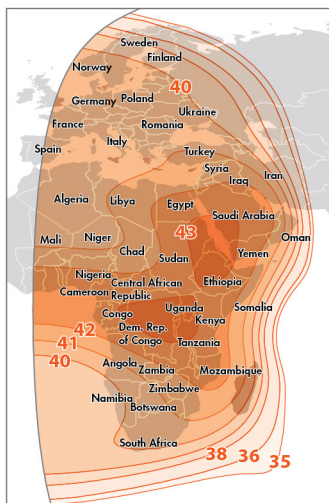
UTS Indonesia | 42-53dBW

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

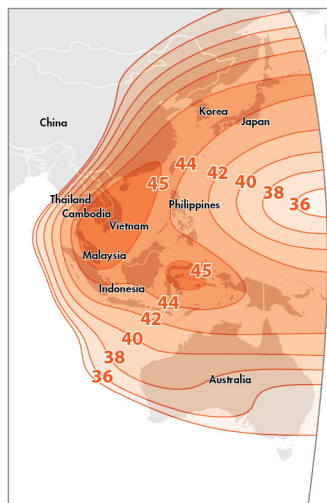
C BAND BEAMS



Global | 31-39dBW



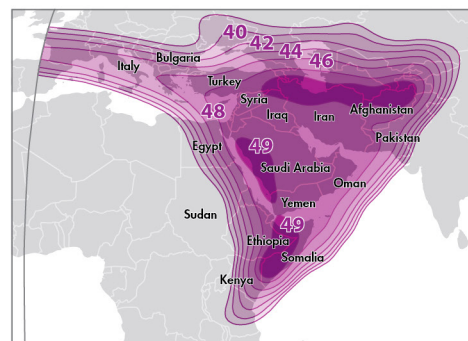
West Hemi | 35-43dBW



East Hemi | 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 | 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 |