



Technical Profile

AMOS-5

General Specifications

- Orbital location 17° East
- Frequency bands C, Ku
- Number of C-band Transponders 14x72 MHz
4x36 MHz
- Number of Ku-band Transponders 18x72 MHz
- Service areas
 - C-band beam Pan-African coverage with access to Europe and the Middle East
 - Ku-band beams 3 shaped regional beams covering Africa, with access to Europe and the Middle East
- Cross-region connectivity between Africa, Europe and the Middle East
- Cross-band connectivity between Ku and C-band beams (2x72 MHz in each direction)
- Launch date December 2011
- Expected Service Life 15 years

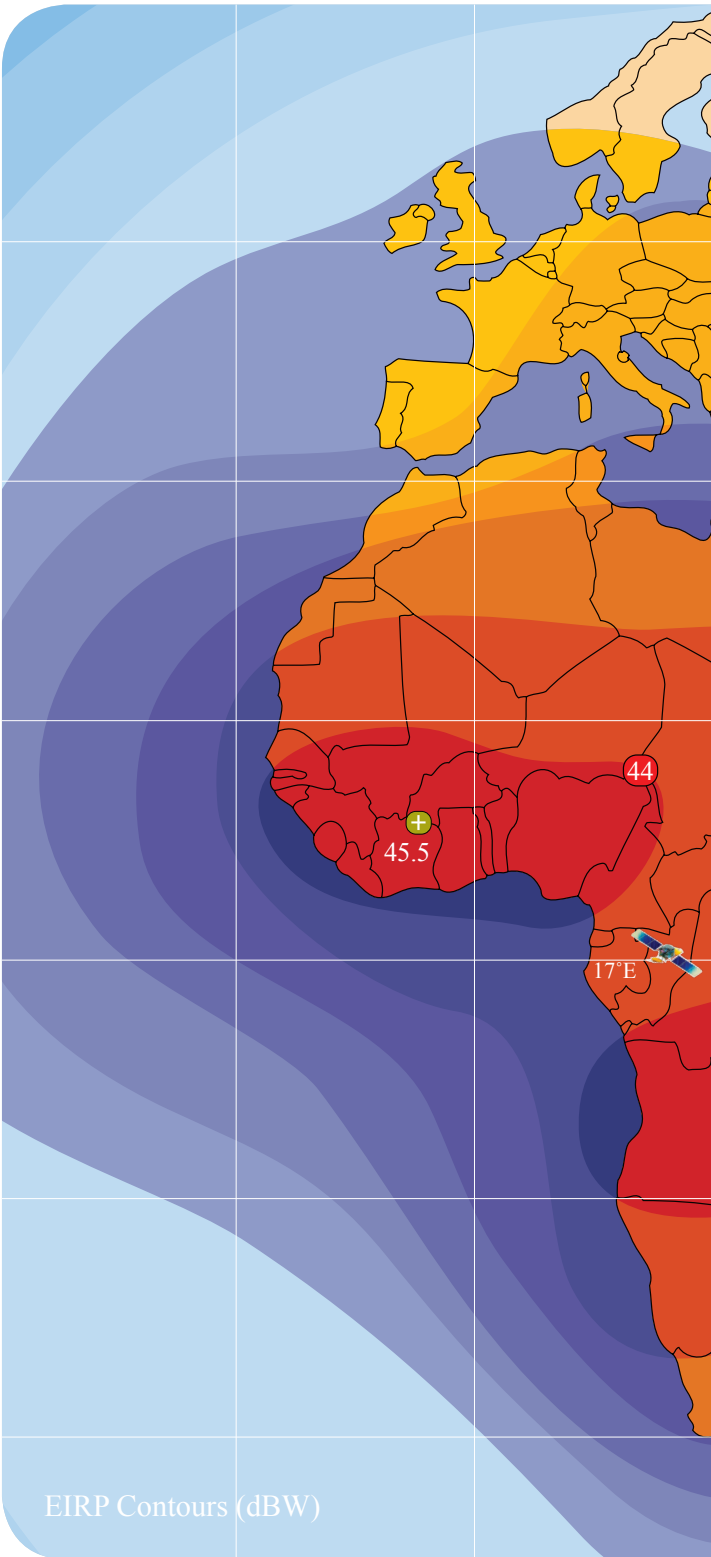
AMOS-5, launched in Dec 2011, established a new orbital position for Spacecom at **17°E**, providing a full range of satellite services over **Africa**. Together with AMOS-2 and AMOS-3, co-located at 4°W orbital "Hot-Spot", and AMOS-4 scheduled for launch in 2012 to serve Asia and Russia, **AMOS-5** enhances Spacecom's satellite coverage over the Middle East and Europe, while adding the emerging African markets to its service portfolio.

AMOS-5 offers **pan-African** coverage, featuring a high-power **C-band** beam and three regional **Ku-band** beams. With multiple C-band and Ku-band powerful transponders and excellent look angle, **AMOS-5** enables Spacecom to offer a variety of satcom services, including:

- VSAT communications and broadband Internet
- Telephony services
- Data trunking
- Cellular backhaul
- Direct-To-Home (DTH) TV broadcasting
- Video distribution

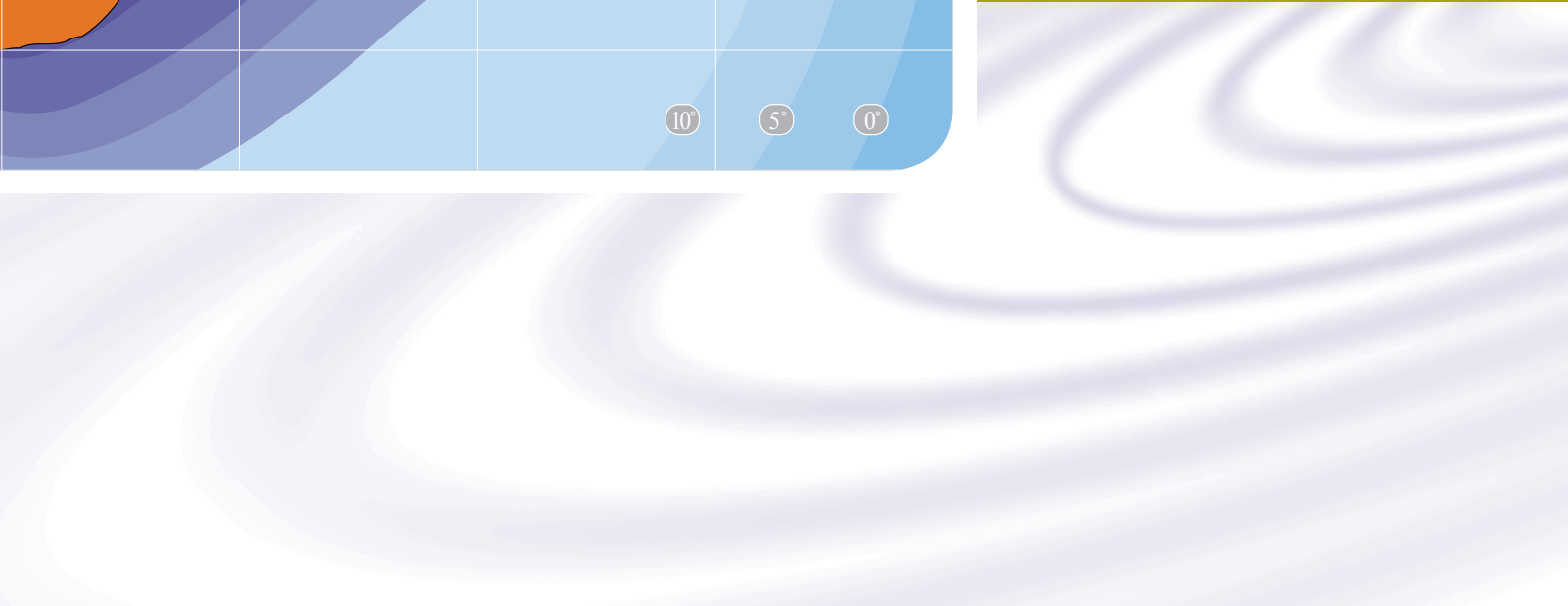
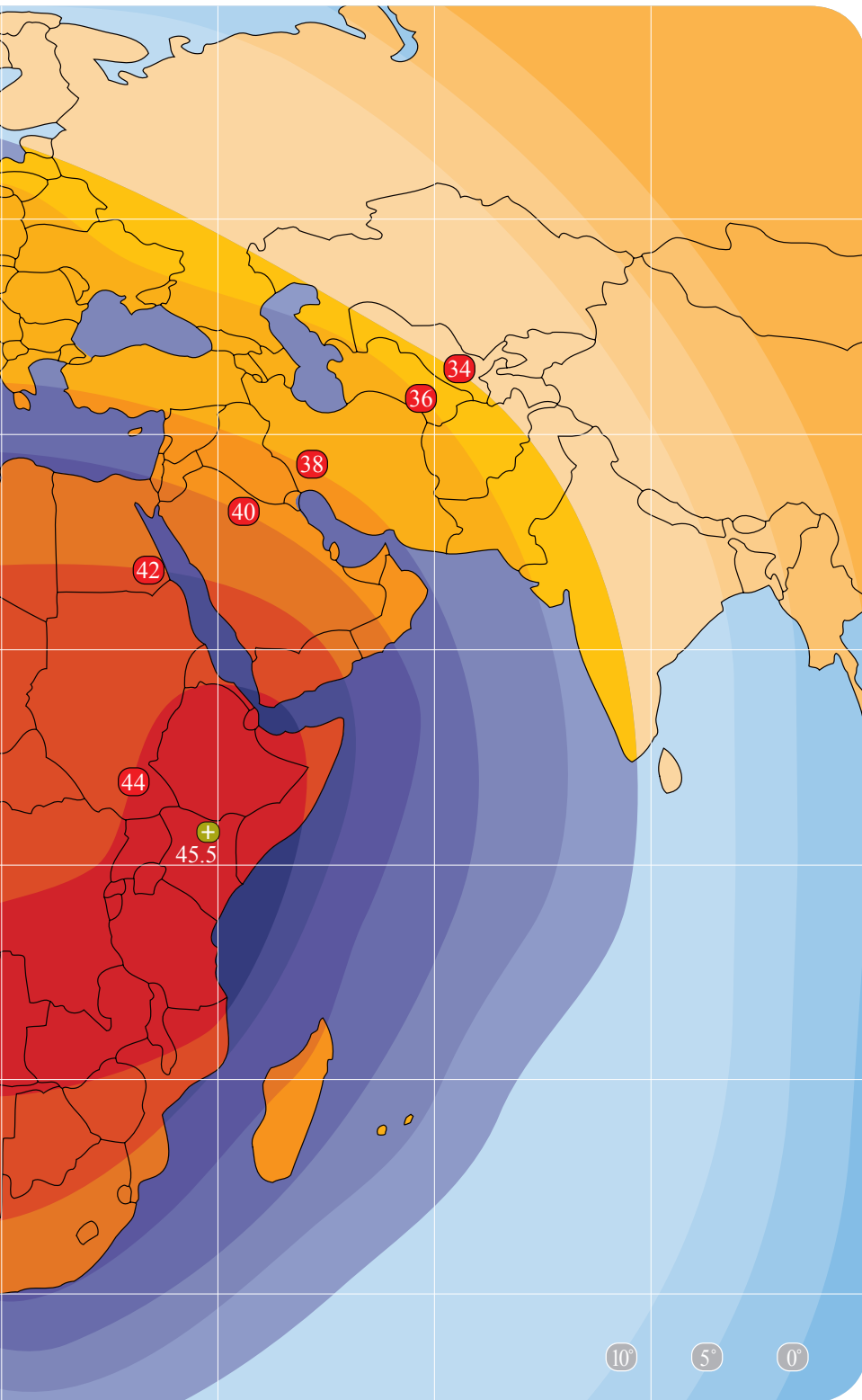
With a new orbital slot, additional capacity, expanded coverage areas and service flexibility of cross-region connectivity, **AMOS-5** places Spacecom at the forefront of operators delivering comprehensive satellite solutions, extending broadcast and broadband reach into the vast rural regions of the African continent.

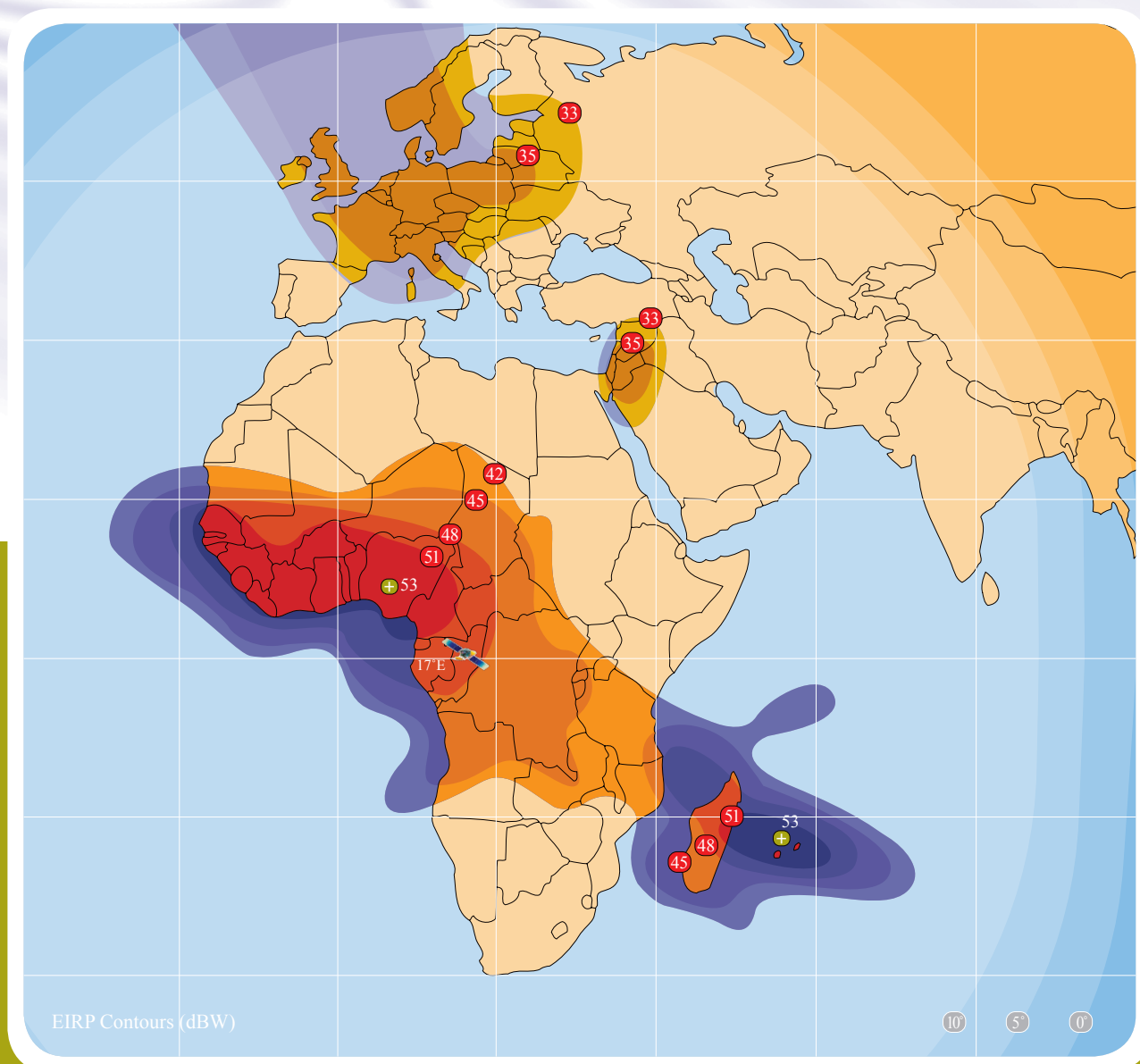
Pan-African C-band Beam



Parameters

Number of Transponders.....	14 x 72 MHz	Uplink polarization	LHCP & RHCP
.....	4 x 36 MHz	Downlink polarization	LHCP & RHCP
EIRP at beam peak	45.5 dBW	Cross-strap connectivity between	
G/T at beam peak	1.0 dB/K	C and Ku-band beams	
Uplink frequencies	5.725-6.725 GHz	(Ku2 beam)	2x72 MHz in each direction
Downlink frequencies	3.4-4.2 GHz		



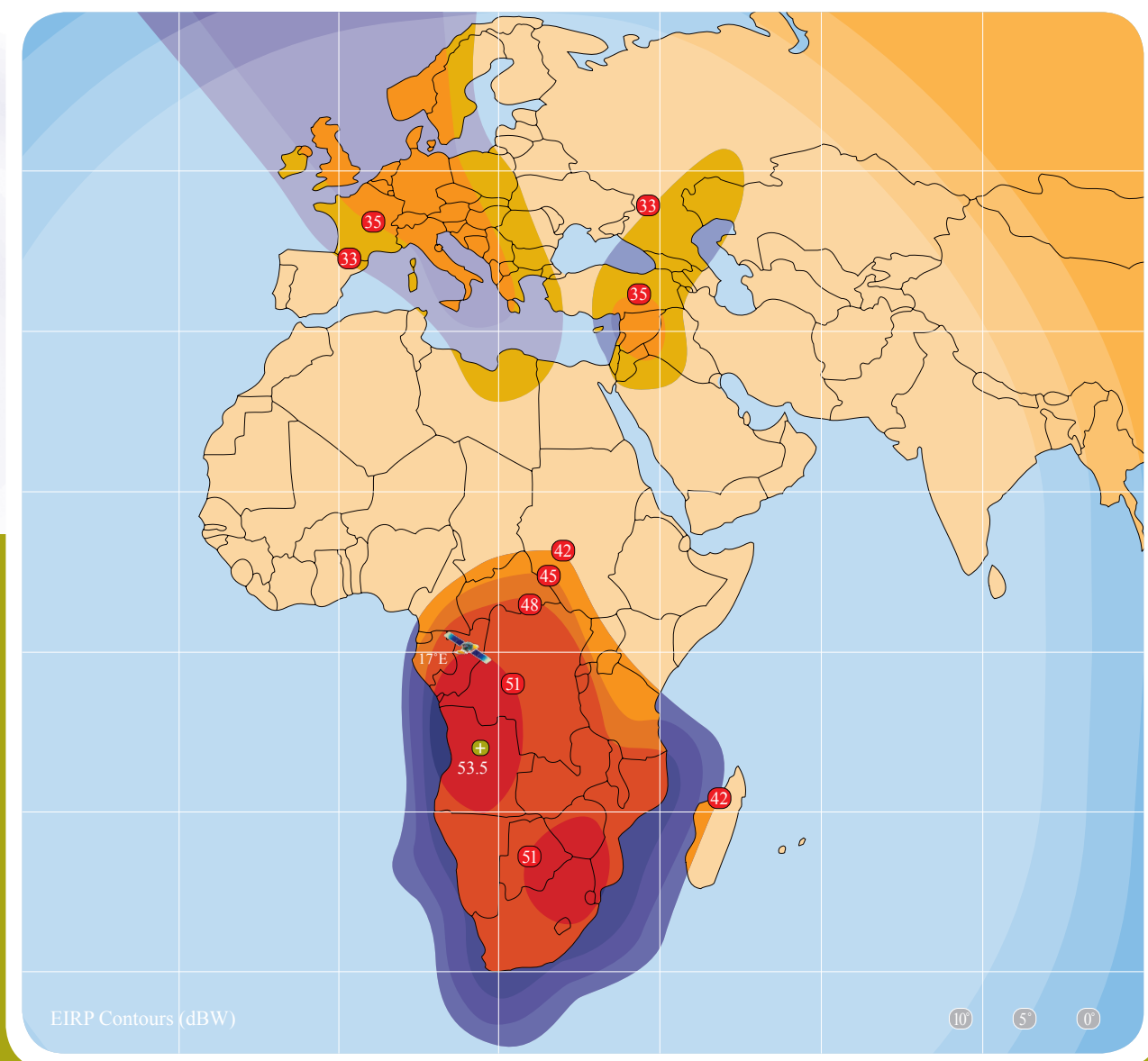


French Speaking Africa Ku-band Beam (Ku1)

Parameters

Number of Transponders..... 7 x 72 MHz
 EIRP at beam peak..... 53 dBW
 G/T at beam peak..... 7 dB/K
 Max G/T over Europe..... -9 dB/K
 Max G/T over the Middle East..... -9 dB/K
 Uplink frequencies..... 13.75 - 14.5 GHz (FSS)
 17.3 - 18.1 GHz (BSS)

Downlink frequencies..... 10.95-11.7 GHz (FSS)
 12.5-12.75 GHz (FSS)
 11.7-12.5 GHz (BSS)
 Uplink polarization..... Vertical & Horizontal
 Downlink polarization..... Vertical & Horizontal

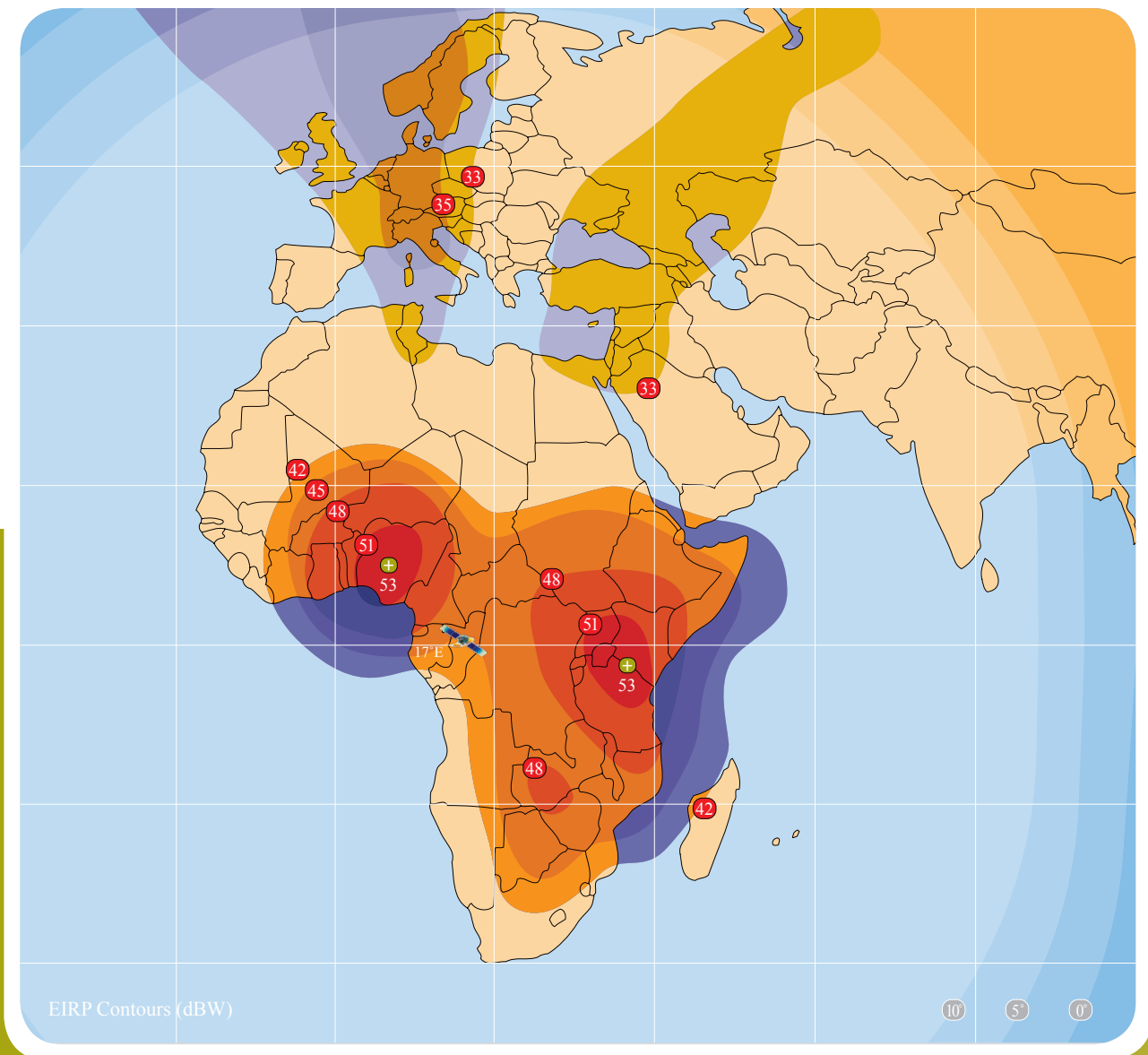


Southern Africa Ku-band Beam (Ku2)

Parameters

Number of Transponders.....5 x 72 MHz
 EIRP at beam peak.....53.5 dBW
 G/T at beam peak.....8 dB/K
 Max G/T over Europe-9 dB/K
 Max G/T over the Middle East-9 dB/K
 Uplink frequencies.....13.75 - 14.5 GHz (FSS)
17.3 - 18.1 GHz (BSS)

Downlink frequencies 10.95-11.7 GHz (FSS)
 12.5-12.75 GHz (FSS)
 11.7-12.5 GHz (BSS)
 Uplink polarizationVertical & Horizontal
 Downlink polarizationVertical & Horizontal
 Cross-strap connectivity with
 the Pan-African C-band beam2x72 MHz in each direction



Central Africa Ku-band Beam (Ku3)

Parameters

Number of Transponders.....6 x 72 MHz
 EIRP at beam peak.....53 dBW
 G/T at beam peak.....7.5 dB/K
 Max G/T over Europe.....-10 dB/K
 Max G/T over the Middle East.....-10 dB/K
 Uplink frequencies.....13.75 - 14.5 GHz (FSS)
17.3 - 18.1 GHz (BSS)

Downlink frequencies.....10.95-11.7 GHz (FSS)
12.5-12.75 GHz (FSS)
11.7-12.5 GHz (BSS)
 Uplink polarization.....Vertical & Horizontal
 Downlink polarization.....Vertical & Horizontal

www.amos-space.com

**Spacecom**

7 Menachem Begin St.
Ramat Gan 52521, Israel
amos-info@amos-spacecom.com
www.amos-spacecom.com

Int. Tel: +972 3 7551000
Int.Fax: +972 3 7551001
US Tel: 1 212 920 8868
US Fax: 1 212 920 8858