



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 schedule Q4-2011
- Expected Service Life 15 years

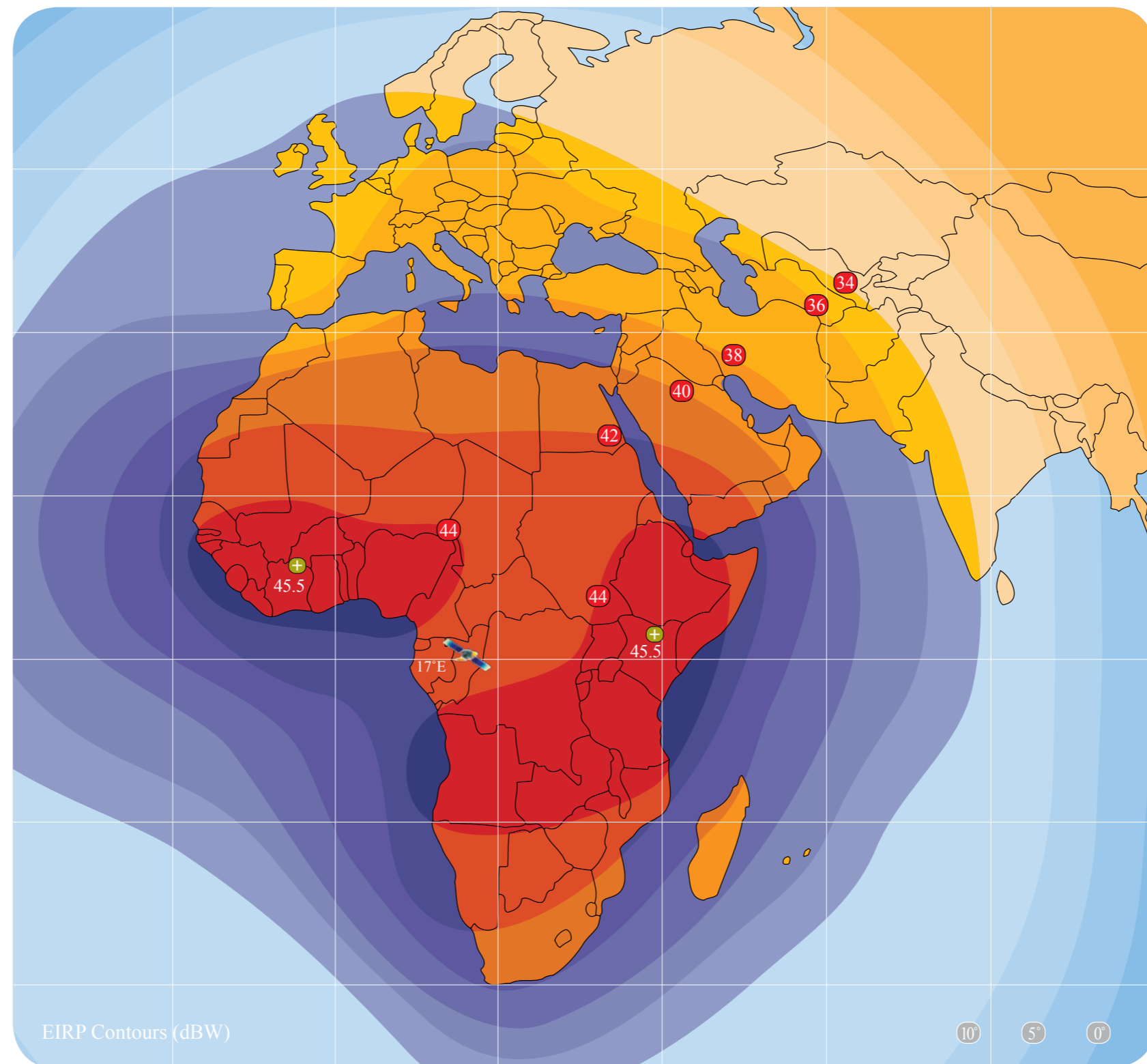
Scheduled for launch in Q4-2011, **AMOS-5** will establish a new orbital position for Spacecom at **17°E**, providing a full range of satellite services over **Africa**. Together with AMOS-2 and AMOS-3, co-located at 4°W orbital "Hot-Spot", and AMOS-4 scheduled for launch in 2012 to serve Asia and Russia, **AMOS-5** will enhance Spacecom's satellite coverage over the Middle East and Europe, while adding the emerging African markets to its service portfolio.

Once in orbit, **AMOS-5** will offer **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** will enable 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

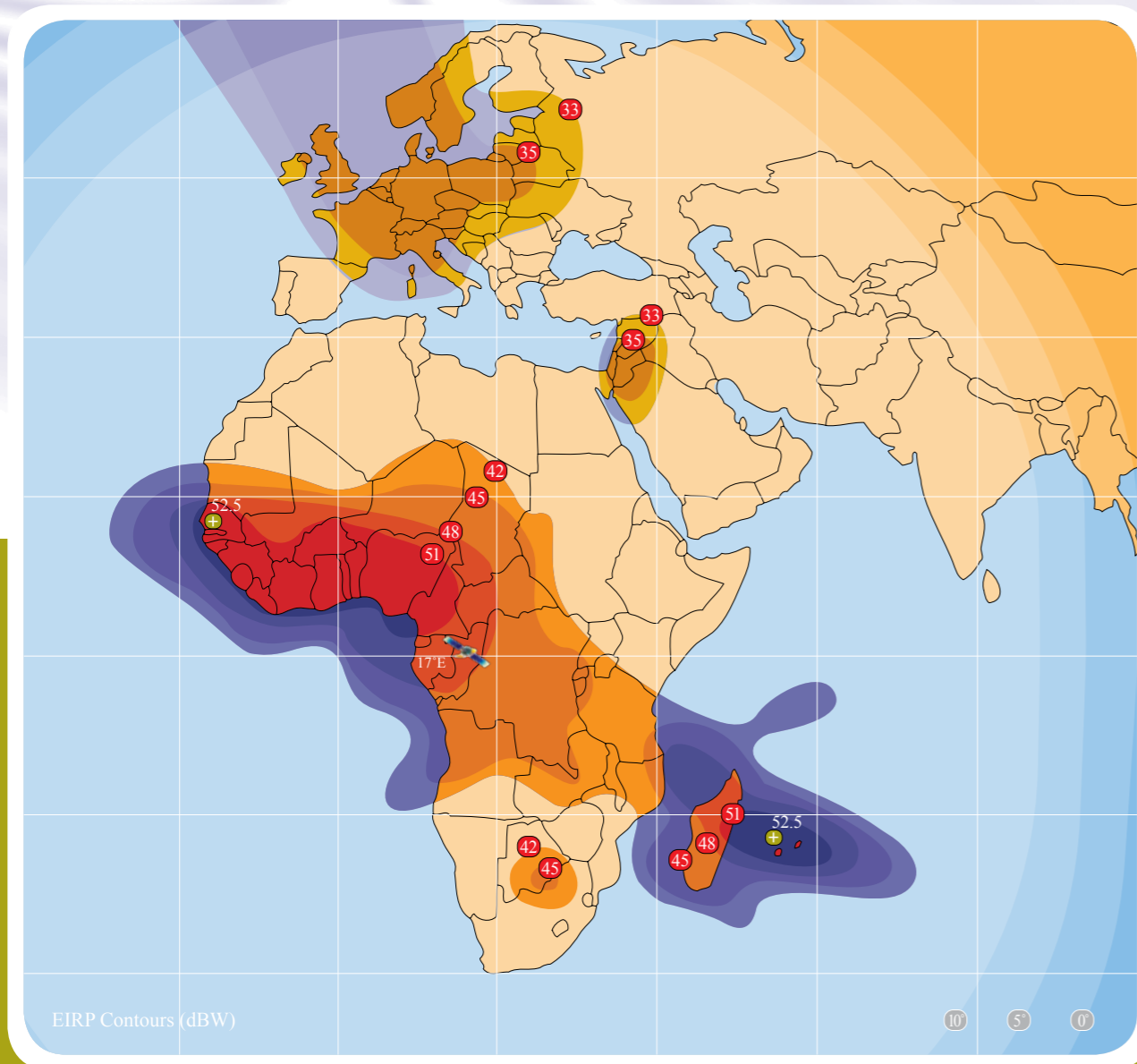
With a new orbital slot, additional capacity, expanded coverage areas and service flexibility of cross-region connectivity, **AMOS-5** places Spacecom at the forefront of operators delivering comprehensive satellite solutions, extending broadcast and broadband reach into the vast rural regions of the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

Pan-African C-band Beam

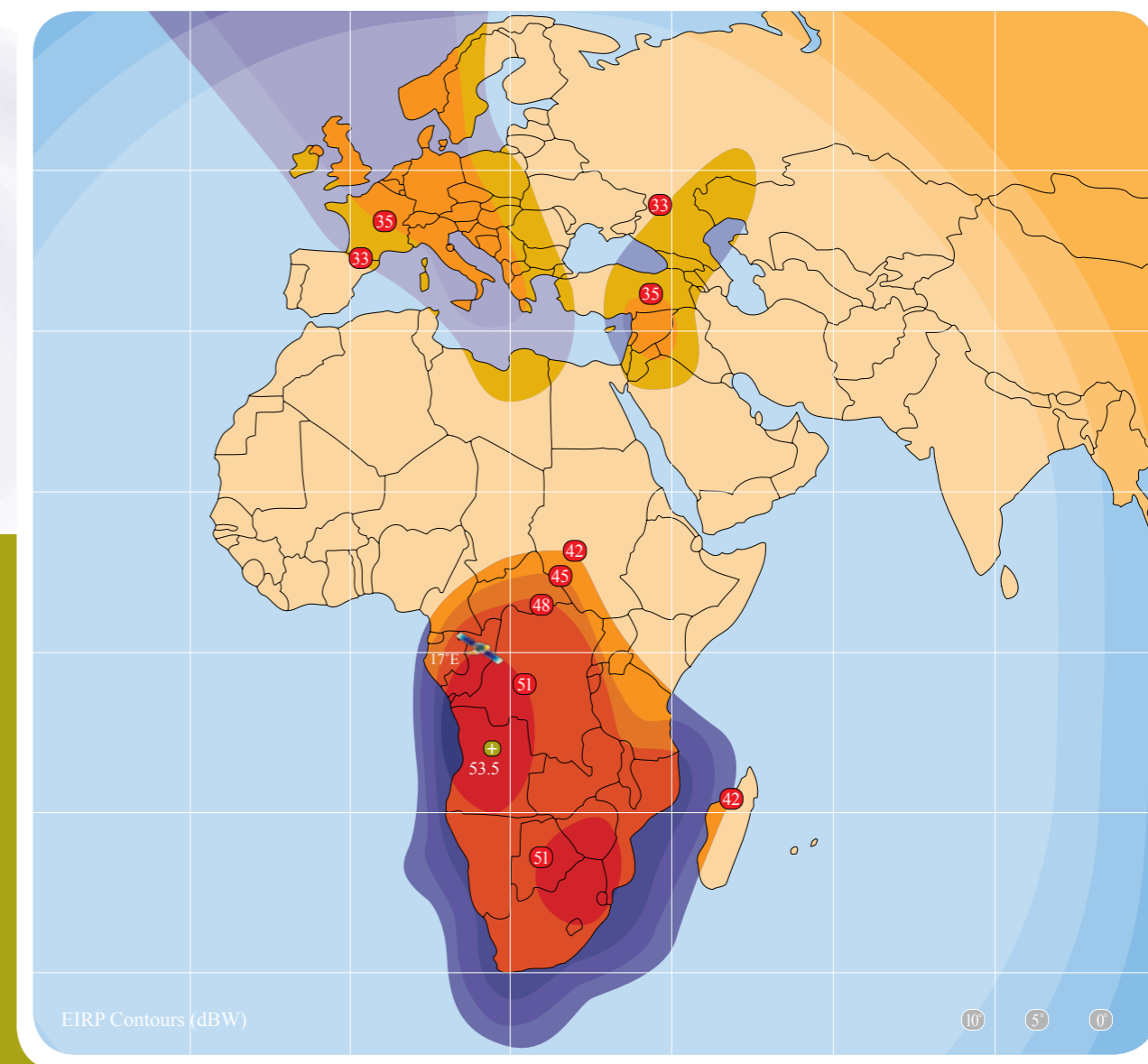


Parameters

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)**



**Southern Africa
Ku-band Beam (Ku2)**

Parameters

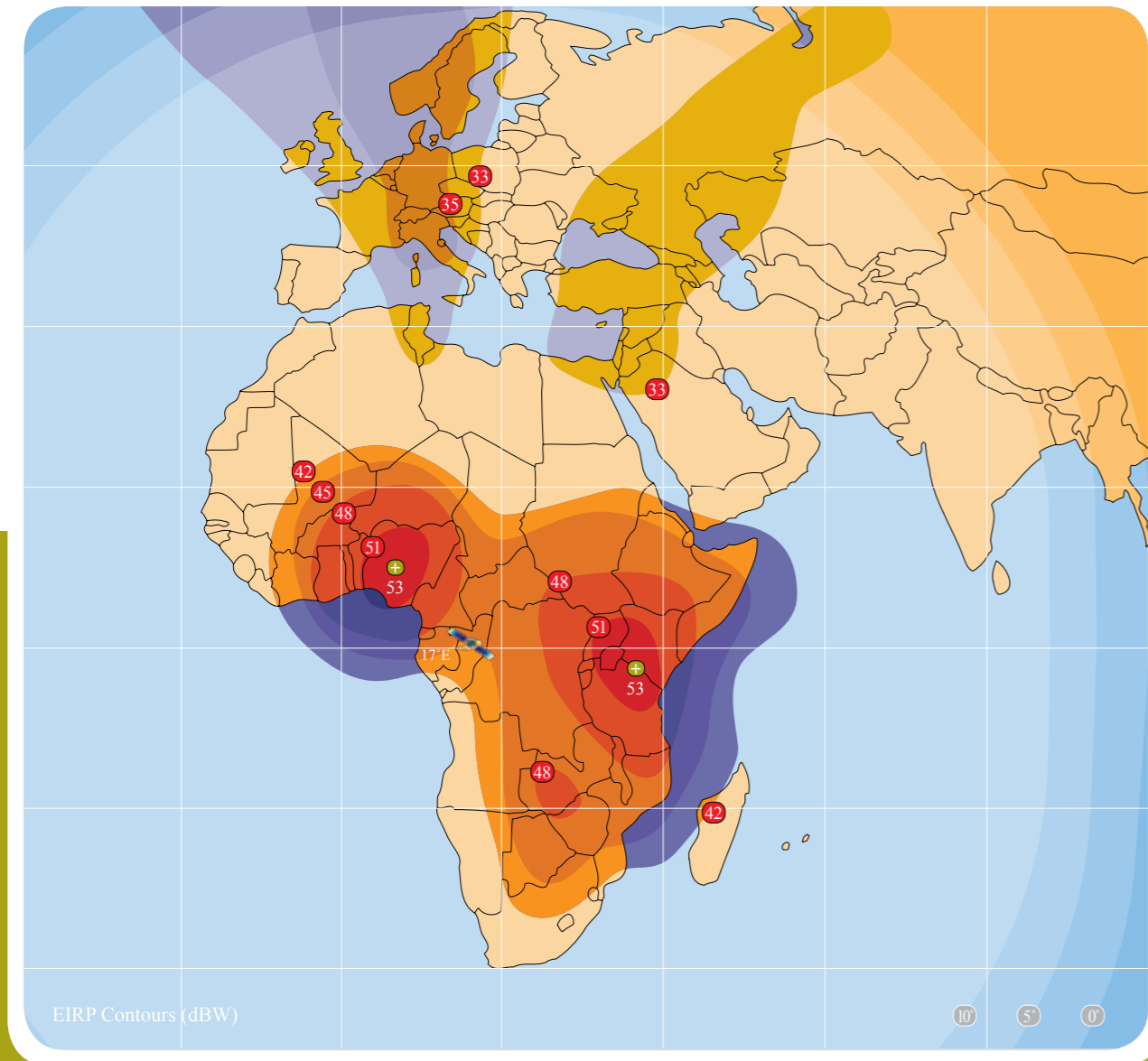
Number of Transponders.....7 x 72 MHz
 EIRP at beam peak.....52.5 dBW
 G/T at beam peak7 dB/K
 Max G/T over Europe-9 dB/K
 Max G/T over the Middle East-9 dB/K
 Uplink frequencies13.75 - 14.5 GHz (FSS)
17.3 - 18.1 GHz (BSS)

Downlink frequencies10.95-11.7 GHz (FSS)
12.5-12.75 GHz (FSS)
11.7-12.5 GHz (BSS)
 Uplink polarizationVertical & Horizontal
 Downlink polarizationVertical & Horizontal

Parameters

Number of Transponders.....5 x 72 MHz
 EIRP at beam peak.....53.5 dBW
 G/T at beam peak8 dB/K
 Max G/T over Europe-9 dB/K
 Max G/T over the Middle East-9 dB/K
 Uplink frequencies13.75 - 14.5 GHz (FSS)
17.3 - 18.1 GHz (BSS)

Downlink frequencies10.95-11.7 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)

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Parameters

Number of Transponders.....	6 x 72 MHz	Downlink frequencies.....	10.95-11.7 GHz (FSS)
EIRP at beam peak.....	53 dBW		12.5-12.75 GHz (FSS)
G/T at beam peak.....	7.5 dB/K		11.7-12.5 GHz (BSS)
Max G/T over Europe.....	-10 dB/K	Uplink polarization.....	Vertical & Horizontal
Max G/T over the Middle East.....	-10 dB/K	Downlink polarization.....	Vertical & Horizontal
Uplink frequencies.....	13.75 - 14.5 GHz (FSS)		
.....	17.3 - 18.1 GHz (BSS)		



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