

Haberleşme Uyduları Kapsama Alanları
Communication Satellite Coverage Areas





Türkiye, Avrupa, Afrika, Orta Doğu ve Güney Asya'ya kadar uzanan geniş bir coğrafya'da TV ve radyo yayıncılık, ses ve veri hizmetleri sağlayan Türksat, karasal altyapının olmadığı bölgelerde müşterilerin ihtiyaçlarına yönelik esnek çözümler sunar. Ku ve Ka frekans bantlarında çalışan Türksat uyduları, 31°, 42° ve 50° Doğu yörüngelerinde faaliyet gösterir.

Offering TV and radio broadcasting, voice and data services across a wide geographic range covering Türkiye, Europe, Africa, Middle East and Asia, Türksat provides flexible solutions to meet the needs of customers in regions where no terrestrial infrastructure exists. Türksat satellites, which use Ku and Ka bands, operate at the 31°, 42° and 50° East orbital locations.



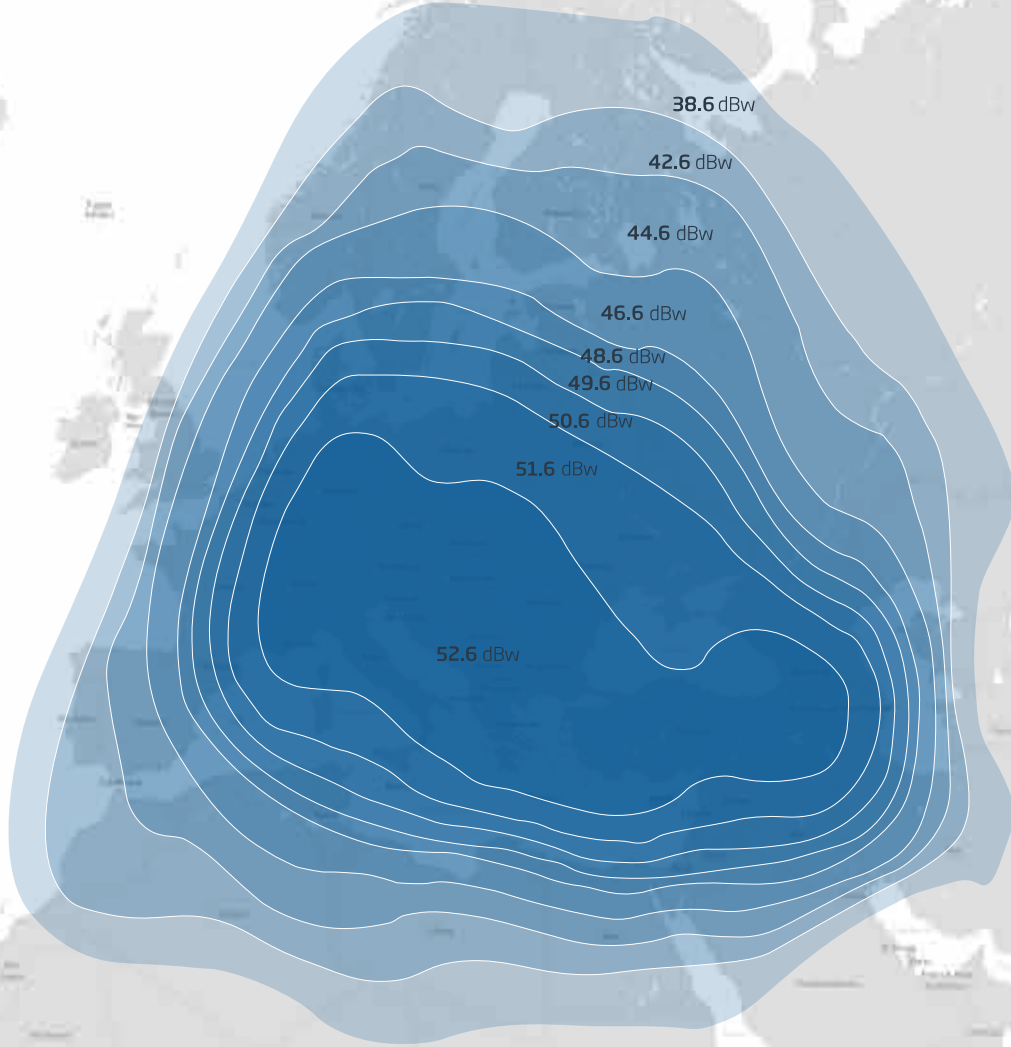
Haberleşme Uyduları Kapsama Alanları
Communication Satellite Coverage Areas



 **TÜRKSAT**
3A

Satellite Details

Satellite Name	Türksat 3A
Manufacturer	Alcatel (Thales) Alenia Space Industries
Platform	SpaceBus 4000B2
Launch Date	13.06.2008
Launch Mass	3110 kg
Power	6127 W
Stabilization Type	3 Axis Control
Orbital Location	42° East
Orbital Window	E / W : $\pm 0.1^\circ$ N/S: $\pm 0.05^\circ$
Design Lifetime	15 years
Maneuver Lifetime	20 years
Uplink Band	Ku-Band
Downlink Band	Ku-Band
Ku-Band Transponders	36 & 72 MHz
Uplink Coverage Options	Turkey, Europe, Middle East, North Africa and Central Asia
Downlink Coverage Options	Europe, Middle East, North Africa and Central Asia

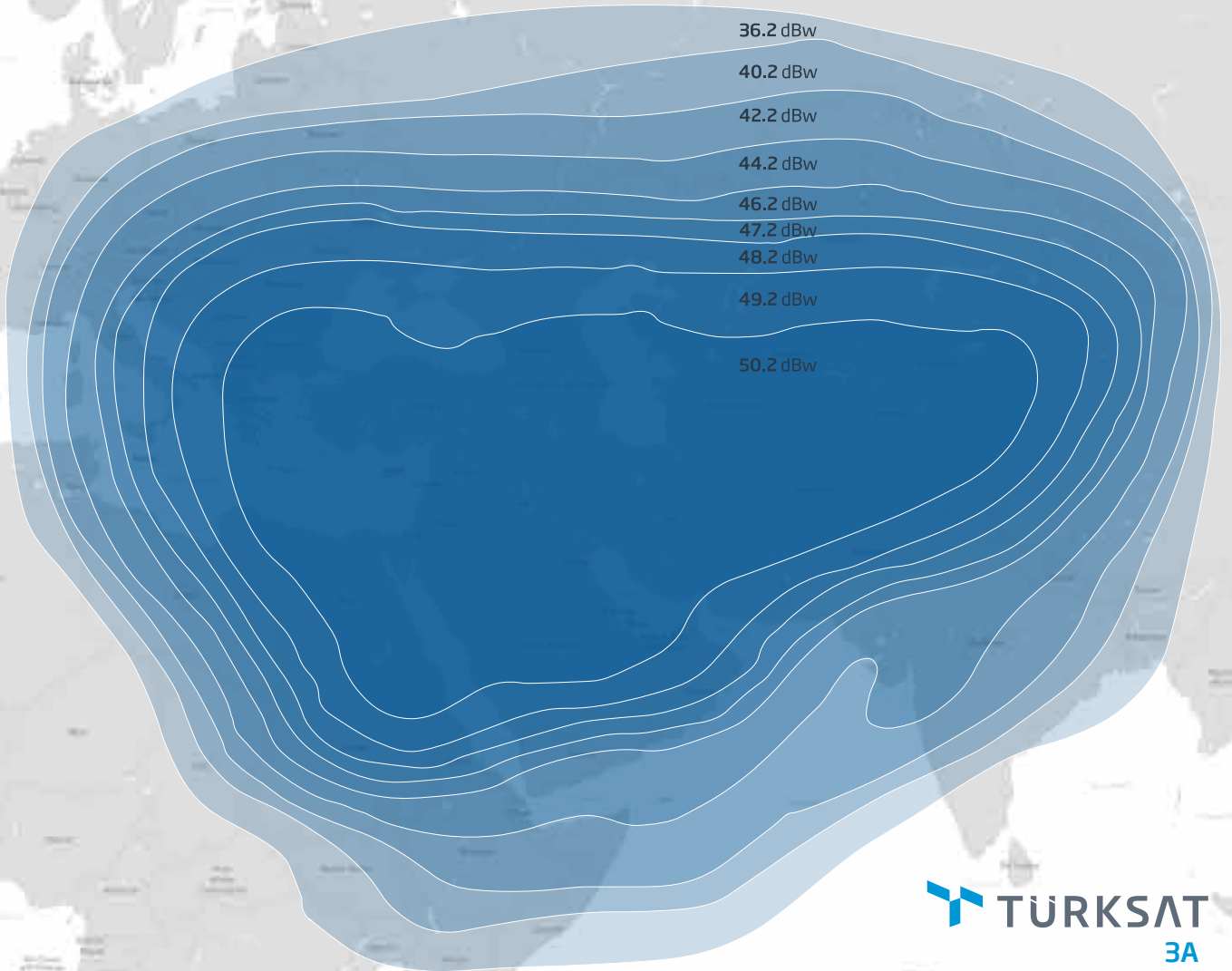


Bati Kapsama Alanı
West Coverage Area

EIRP

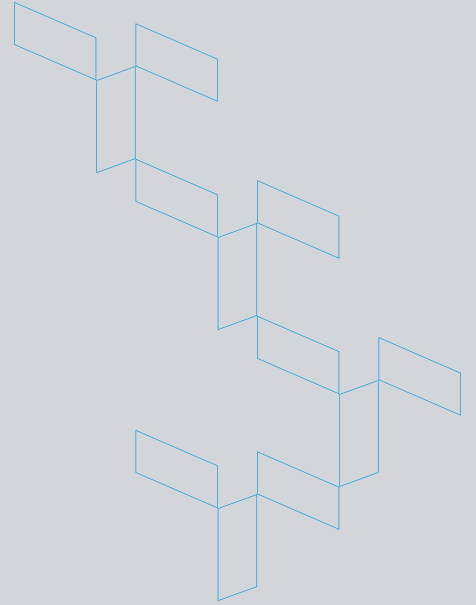
EIRP

Doğu Kapsama Alanı
East Coverage Area



Türksat 3A, pek çok TV kanalının yayın yaptığı 42° Doğu lokasyonunda yer almaktadır. Daha fazla bilgi için <https://uydu.turksat.com.tr> adresini ziyaret ediniz.

Türksat 3A is located at 42° E, where many TV channels broadcast from. To learn more about Türksat 3A, please visit <https://uydu.turksat.com.tr/en>





TÜRKSAT
4A

Satellite Details	
Satellite Name	Türksat 4A
Manufacturer	Mitsubishi Electric Corporation (MELCO)
Platform	DS2000
Launch Date	14.02.2014
Launch Mass	4919 kg
Power	9316 W
Stabilization Type	3 Axis Control
Orbital Location	42° East
Orbital Window	E / W : ± 0.1° N/S: ± 0.05°
Design Lifetime	15 years
Maneuver Lifetime	30 years
Ku-BSS Band	
Uplink Band	Ku-BSS Band
Downlink Band	Ku-BSS Band
Transponders	33 & 54 & 72 MHz
Uplink or Downlink Coverage Options	Turkey, Europe, Middle East and Central Asia
Uplink Coverage Options	Turkey, Europe, Middle East, North Africa and Central Asia
Downlink Coverage Options	Europe, Middle East, North Africa and Central Asia
Ka/Ku Band	
Uplink Band	Ku-Band, Ka-Band
Downlink Band	Ku-Band, Ka-Band
Transponders	27 MHz
Uplink and Downlink Coverage Options	Europe, Turkey (Ka-Band) MidWest Africa and South East Africa (Ku-Band) cross connectivity between coverage areas

EIRP

Ku-Bant Batı Kapsama Alanı
Ku-Band West Coverage Area

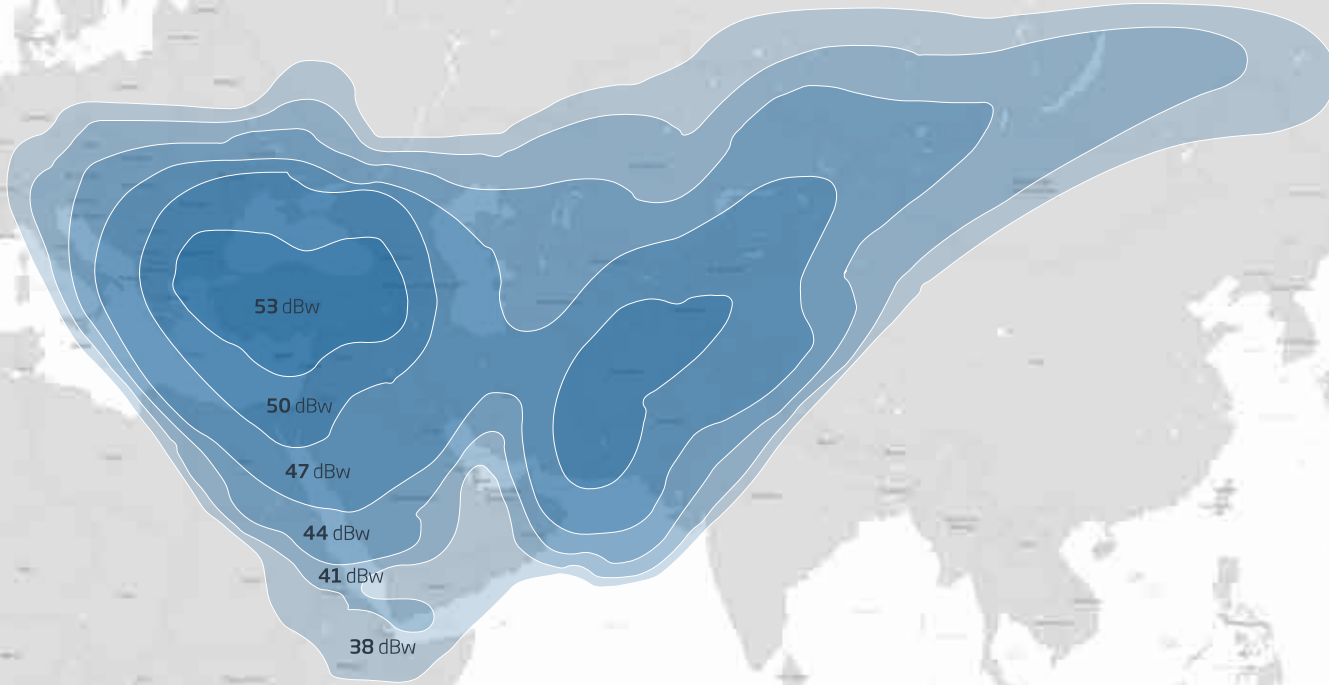
41 dBw

45 dBw

49 dBw

51 dBw

52.5 dBw



Ku-Bant Doğu Kapsama Alanı
Ku-Band East Coverage Area

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Ku-Bant Afrika Kapsama Alanı Ku-Band Coverage Area Africa

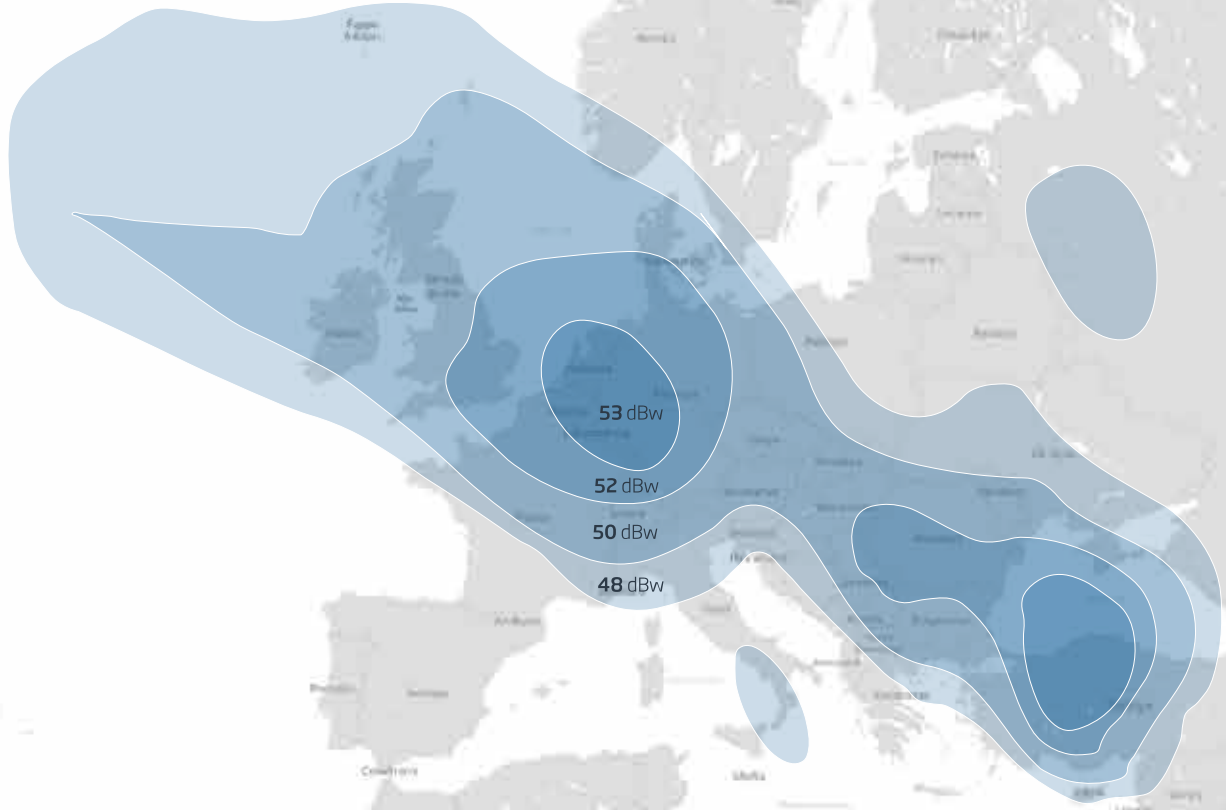
35 dBw

38 dBw

42 dBw

45 dBw

48 dBw

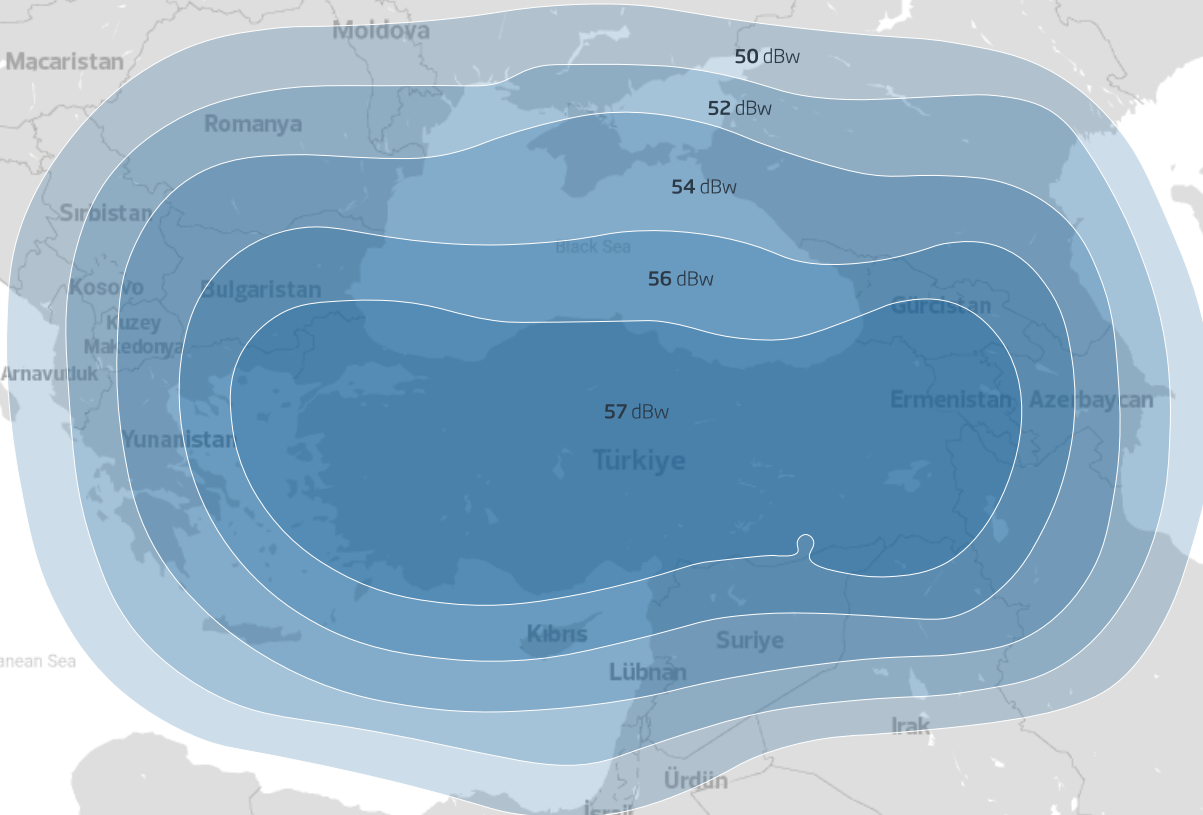


Ka-Bant Avrupa Kapsama Alanı
Ka-Band Coverage Area Europe

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Türkiye Kapsama Alanı
Türkiye Coverage Area



 **TURKSAT**
Persian Gulf 4A

Suudi Arabistan

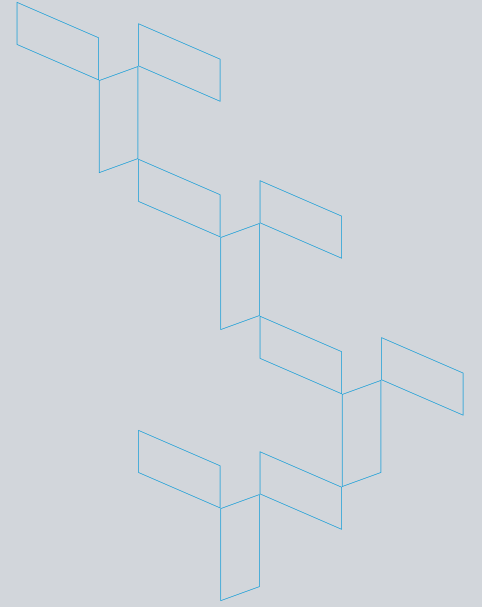
Bahreyn

Katar

Birleşik Arap Emirlikleri

Türksat 4A, sadece Türkiye'de yaklaşık 18.000.000 çanak antenin dönük olduğu 42° Doğu lokasyonunda yer almaktadır. Daha fazla bilgi için <https://uydu.turksat.com.tr> adresini ziyaret ediniz.

Türksat 4A is located at 42° E, where about 18.000.000 satellite dishes are facing from Türkiye alone. To learn more about Türksat 4A, please visit <https://uydu.turksat.com.tr/en>



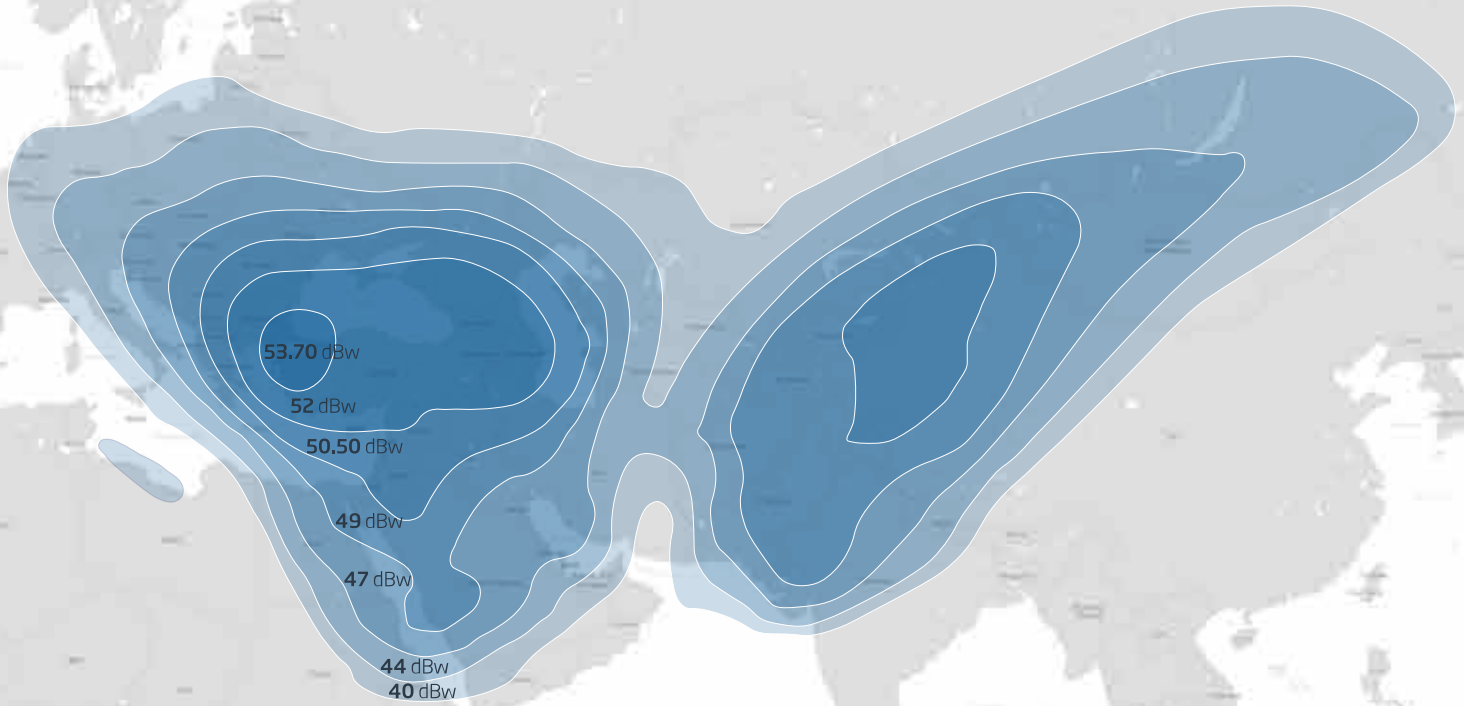


TÜRKSAT
4B

Satellite Details	
Satellite Name	Türksat 4B
Manufacturer	Mitsubishi Electric Corporation (MELCO)
Platform	DS2000
Launch Date	13.10.2015 (UT)
Service Date	End of 2015
Launch Mass	4924 kg
Power	9490 W
Stabilization Type	3 Axis Control
Orbital Location	50° East
Orbital Window	E / W : ± 0.1° N/S: ± 0.05°
Design Lifetime	15 years
Maneuver Lifetime	31 years
Uplink Band	C Band, Ku-Band, Ka-Band
Downlink Band	C Band, Ku-Band, Ka-Band
Ku-Band Transponders	36 & amp; 72 MHz
Uplink or Downlink Coverage Options	Turkey, Europe, Middle East and Central Asia

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Ku-Bant Doğu Kapsama Alanı
Ku-Band East Coverage Area



39 dBw

43 dBw

46 dBw

49 dBw

51 dBw

52.50 dBw

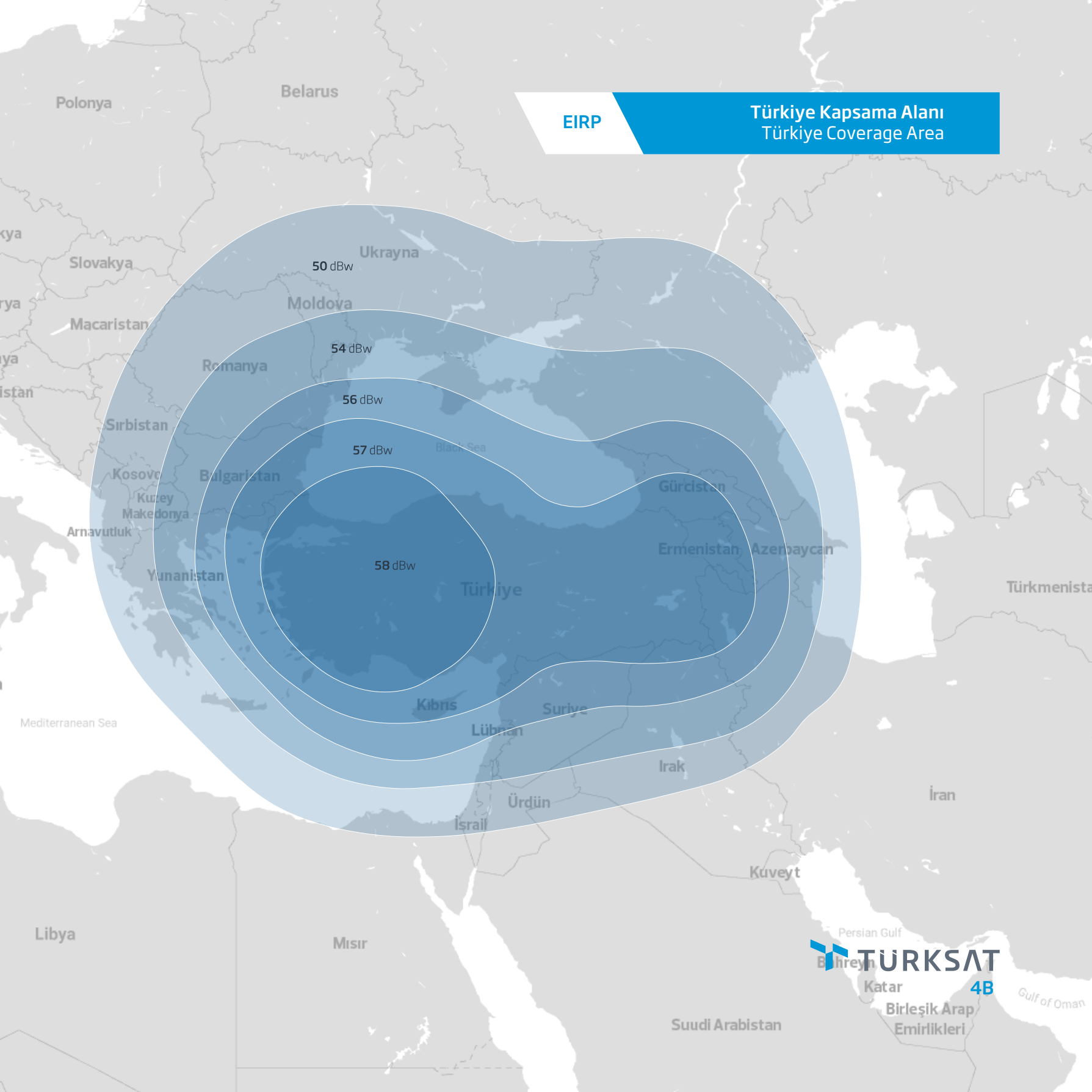
53.20 dBw

Ku-Bant Batı Kapsama Alanı
Ku-Band West Coverage Area

EIRP

EIRP

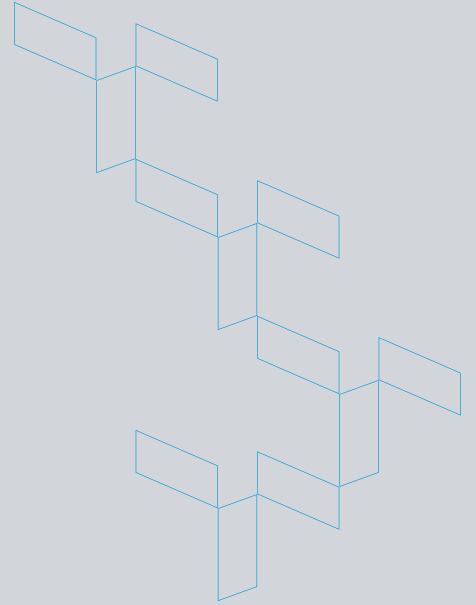
Türkiye Kapsama Alanı
Türkiye Coverage Area



 **TÜRKSAT**
4B

Türksat 4B, 50° Doğu lokasyonunda Ku ve Ka bantlar üzerinden hizmet vermektedir. Daha fazla bilgi için <https://uydu.turksat.com.tr> adresini ziyaret ediniz.

Türksat 4B is located at 50° E, where service is provided through Ku and Ka band frequencies. To learn more about Türksat 4B, please visit <https://uydu.turksat.com.tr/en>





Satellite Details	
Satellite Name	Türksat 5A
Manufacturer	Airbus DS
Platform	E3000
Launch Date	Q2 2020
Launch Mass	3400 kg
Power	9788
Stabilization Type	3 Axis Control
Orbital Location 42° East	31° East
Orbital Window E / W	Longitude window = $\pm 0.0375^\circ$, Inclination window = $\pm 0.05^\circ$
Design Lifetime	15 years
Maneuver Lifetime	31 years
Uplink Band	Ku-Band & New Ku-Band
Downlink Band	Ku-Band & New Ku-Band
Ku-Band / New Ku Band Transponders	36 & 72 MHz
Uplink Coverage Options	Turkey, East, West-1, West-2, Germany, MENA, S. Africa, W. Africa
Downlink Coverage Options	Turkey, East, West-1, West-2, Germany, MENA, S. Africa, W. Africa

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Ku-Bant Almanya Kapsama Alanı
Ku-Band Germany Coverage Area

Faerøe Adaları

Norveç

Çarlıca

Finnlandiya

İrlanda

Birleşik Krallık
Man Adası

İrlanda

North Sea

53 dBw

Danimarka

54 dBw

55 dBw

Hollanda

Almanya

Belçika

Lüksemburg

Polonya

Çekya

Slovakya

Avusturya

Macaristan

İsviçre

Slovenya

Hırvatistan

Belarus

Ukrayna

Moldova

Romanya

Fransa

Monako

İtalya

Sırbistan

Kosovo

Bulgaristan

Arnavutluk

Kuzey Makedonya

Yunanistan

Black Sea

Andorra

Portekiz

İspanya

Tyrrhenian Sea

Gürcistan

Ermenistan

Türkiye

Cebelitarık

Malta

Mediterranean Sea

Kıbrıs

Suriye

Lübnan

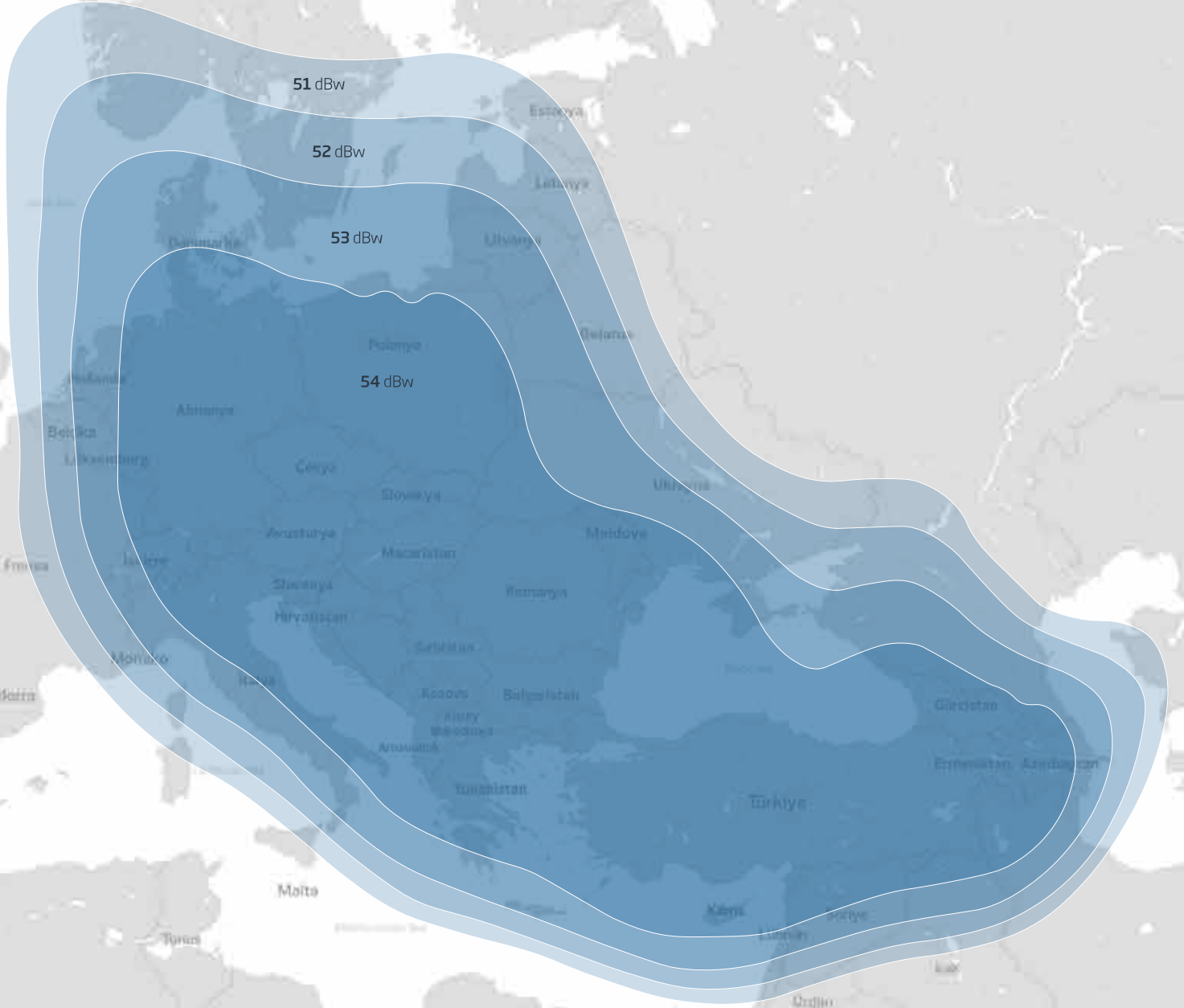
Ürdün

İsrail

Irak

Cezayir

 **TURKSAT**

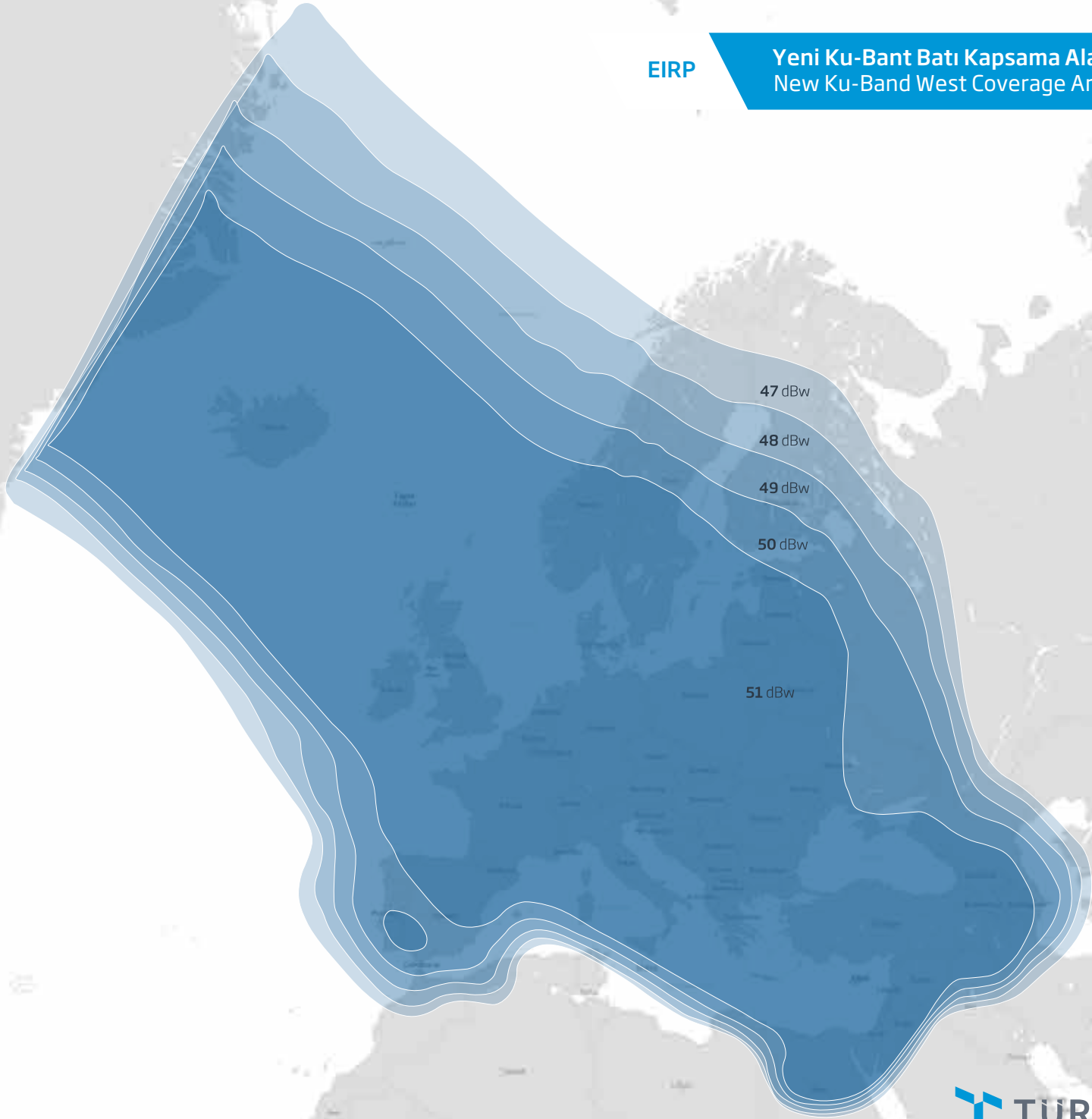



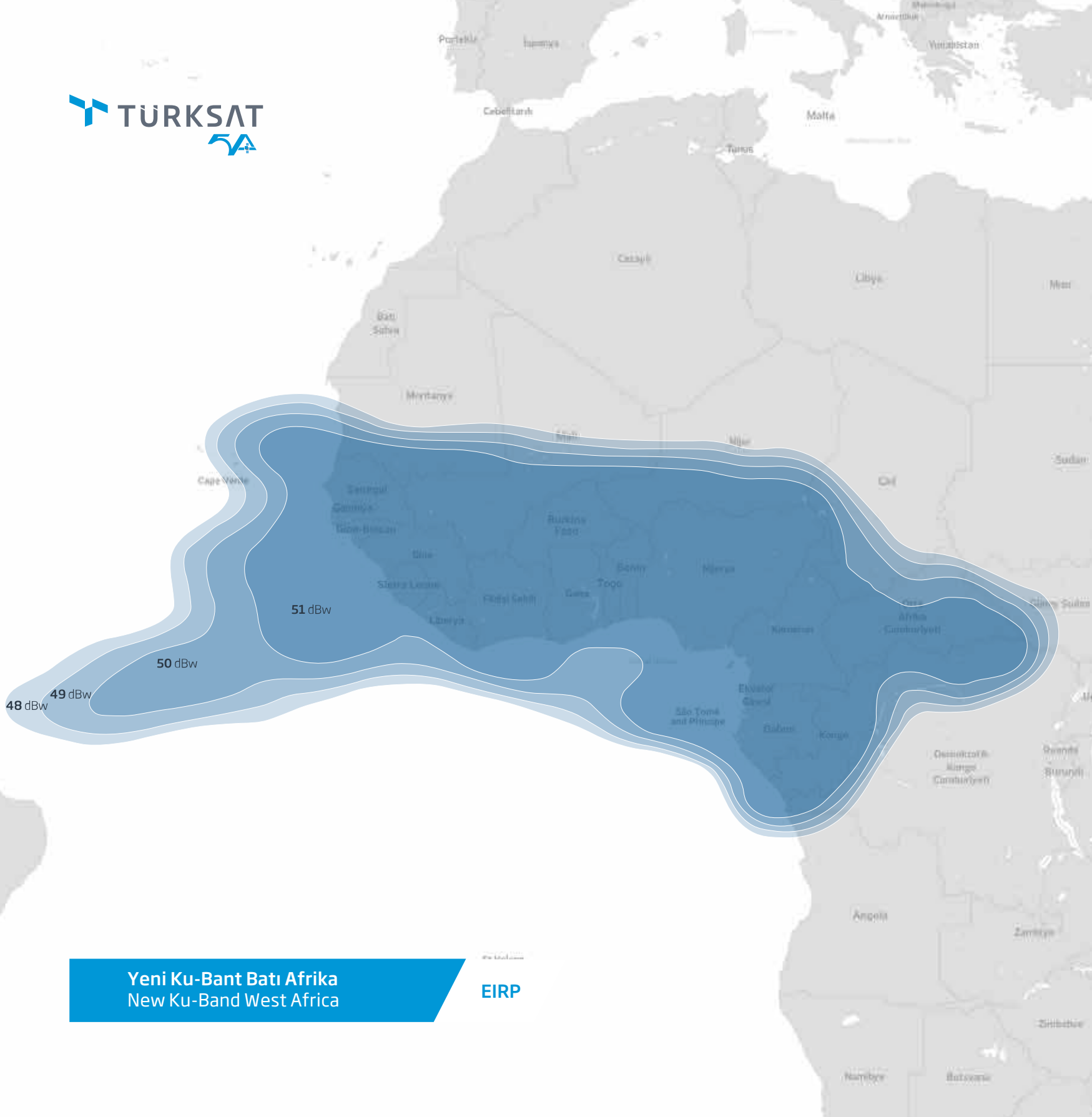
Ku-Bant Batı Kapsama Alanı
Ku-Band West Coverage Area

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Yeni Ku-Bant Batı Kapsama Alanı
New Ku-Band West Coverage Area



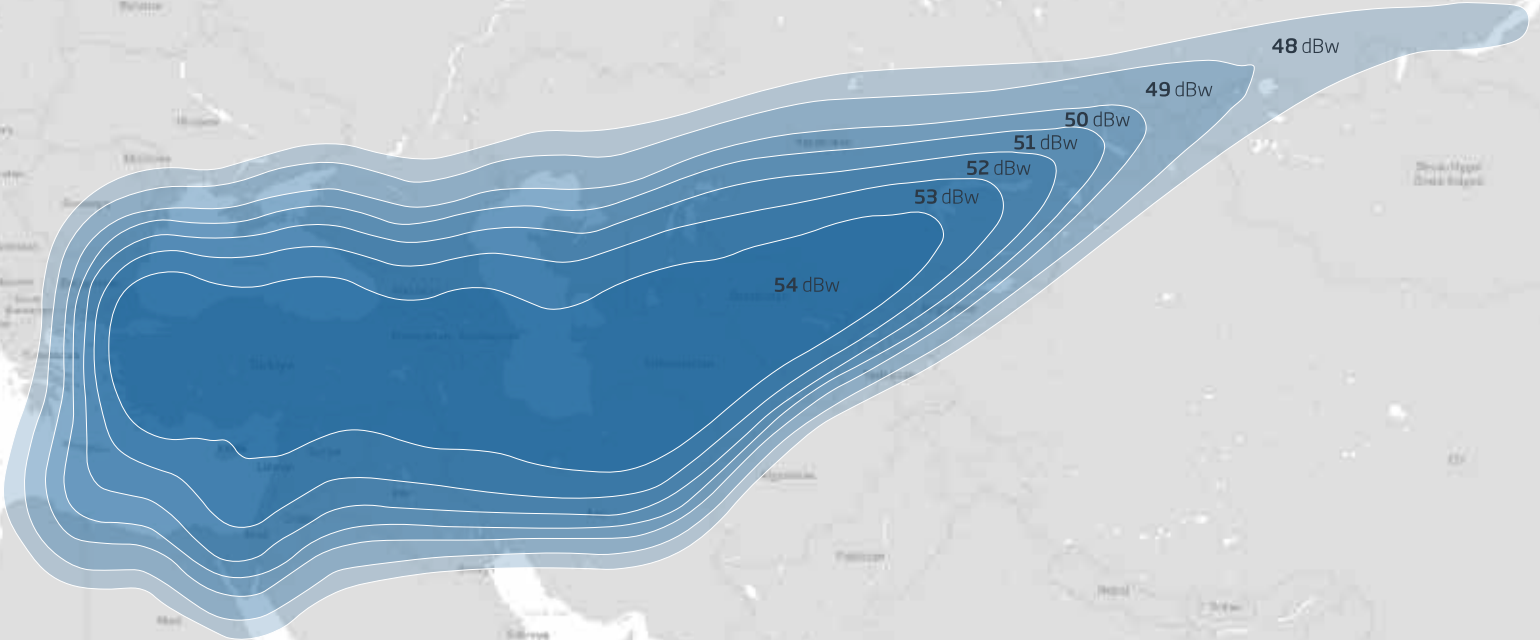


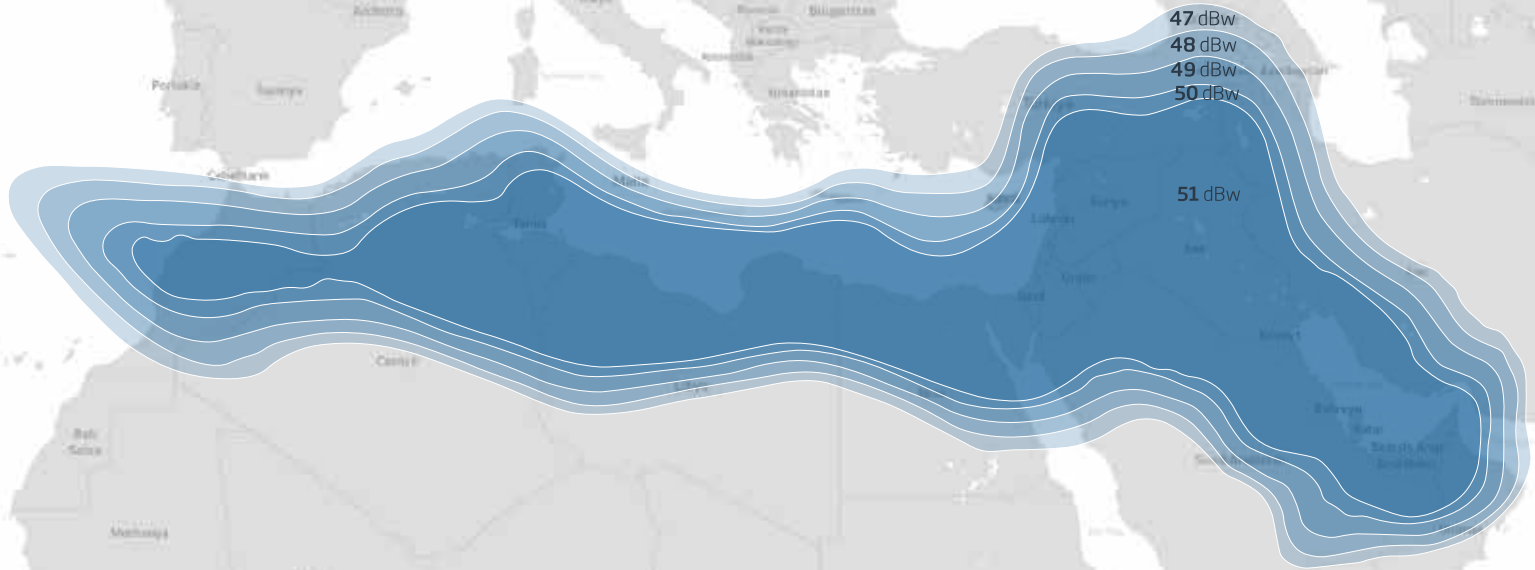
Yeni Ku-Bant Batı Afrika
New Ku-Band West Africa

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Ku-Bant Doğu Kapsama Alanı
Ku-Band East Coverage Area





Ku-Bant / Yeni Ku-Bant Mena
Ku-Band / New Ku-Band Mena

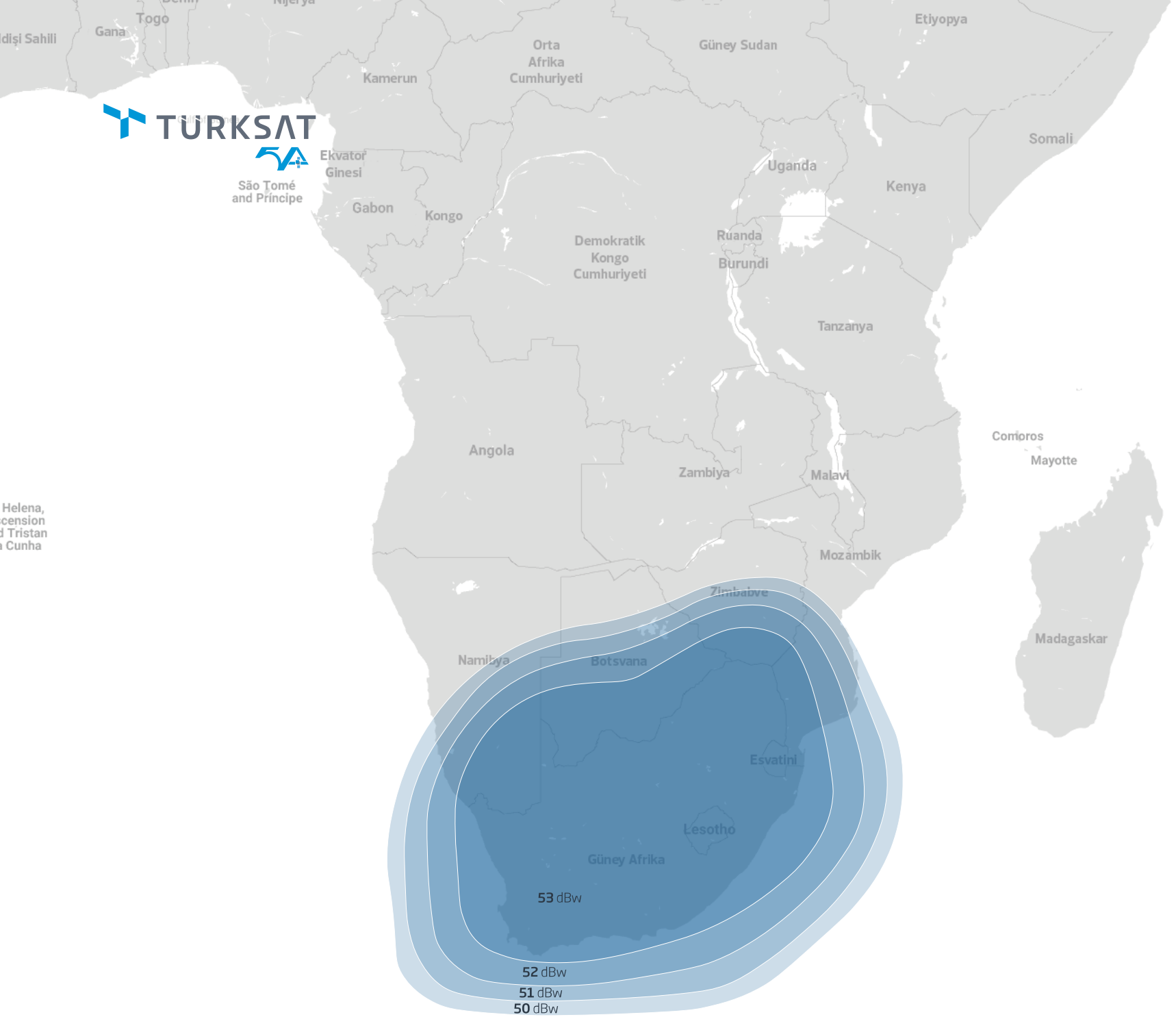
EIRP



TURKSAT



So Tome
and Prncipe

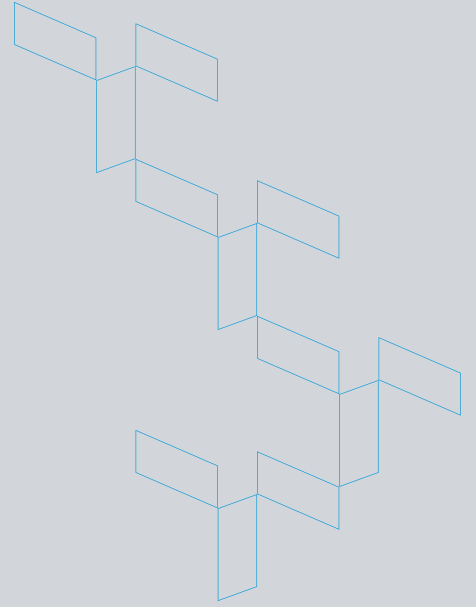


Ku-Bant / Yeni Ku-Bant Gney Afrika
Ku-Band / New Ku-Band South Africa

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Türksat 5A, 31° Dođu yörüngesinde Türkiye, Ortadođu, Avrupa, Kuzey Afrika ve Güney Afrika'yi kapsayan bir cođrafyada Ku frekans bandında hizmet vermektedir. Daha fazla bilgi için <https://uydu.turksat.com.tr> adresini ziyaret ediniz.

Türksat 5A provides service at the 31° East orbital location via its Ku frequency band, which covers Turkey, Middle East, Europe, North and South Africa. To learn more about Türksat 5A, please visit <https://uydu.turksat.com.tr/en>

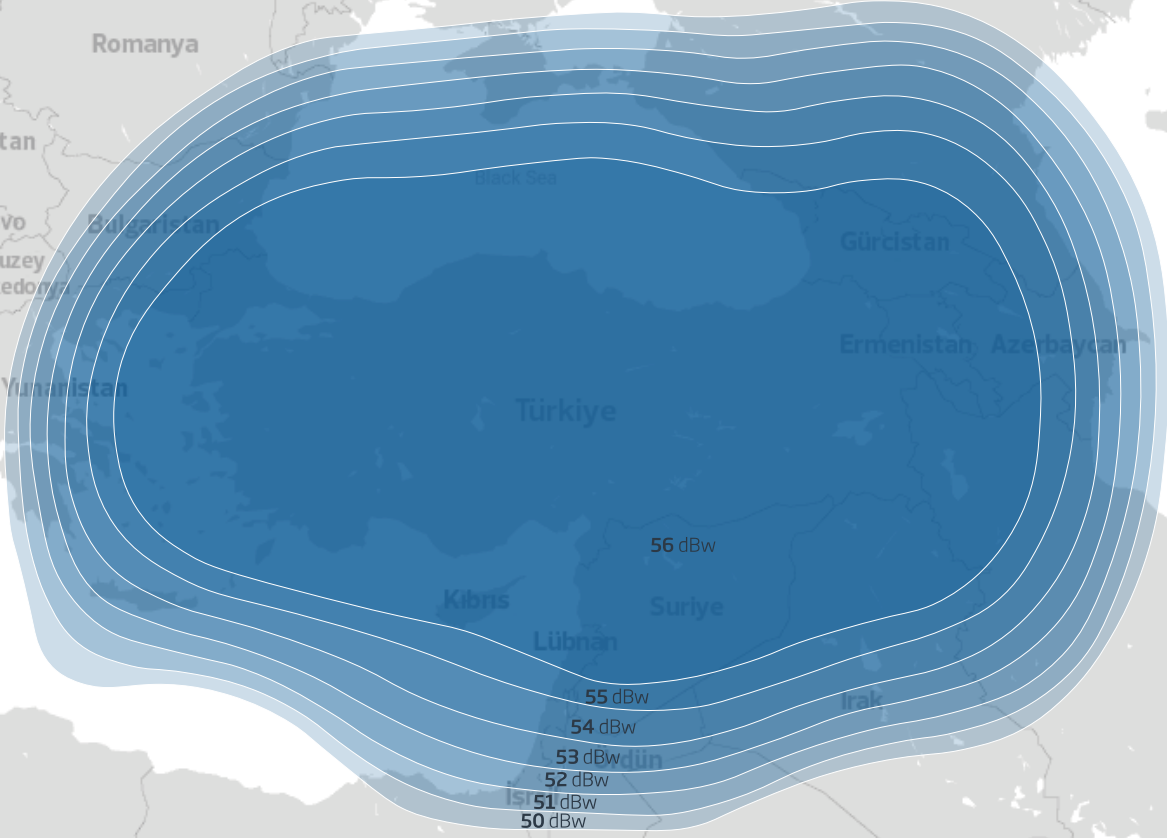


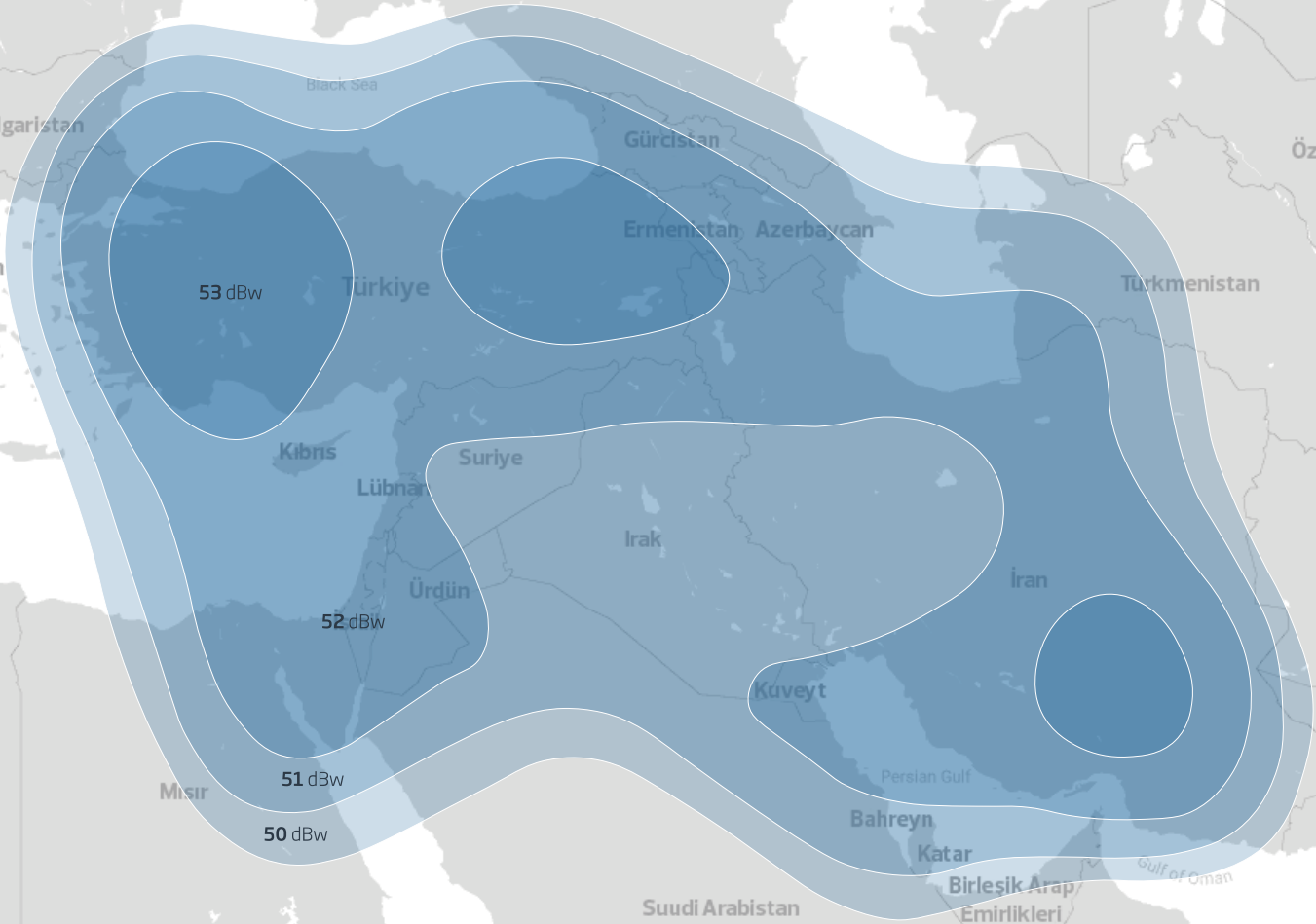


Satellite Details	
Satellite Name	Türksat 5B
Manufacturer	Airbus DS
Platform	E3000-EOR
Planned Launch Date	Q2 2021
Launch Mass	4516 kg
Power	12 kW
Orbital Location	42° East
Minimum Service Lifetime	15 years
Maneuver Lifetime	37 years
Ku / New Ku Uplink Band	Ku-Band & New Ku-Band
Ku/ New Ku Downlink Band	Ku-Band & New Ku-Band
Ka User Uplink Band	Ka-Band & Ka-Bss Band
Ka User Downlink Band	Ka-Band & Ka-Bss Band
Downlink Coverage Options	Turkey, West, MET, Ka-MB

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Türkiye Kapsama Alanı
Türkiye Coverage Area



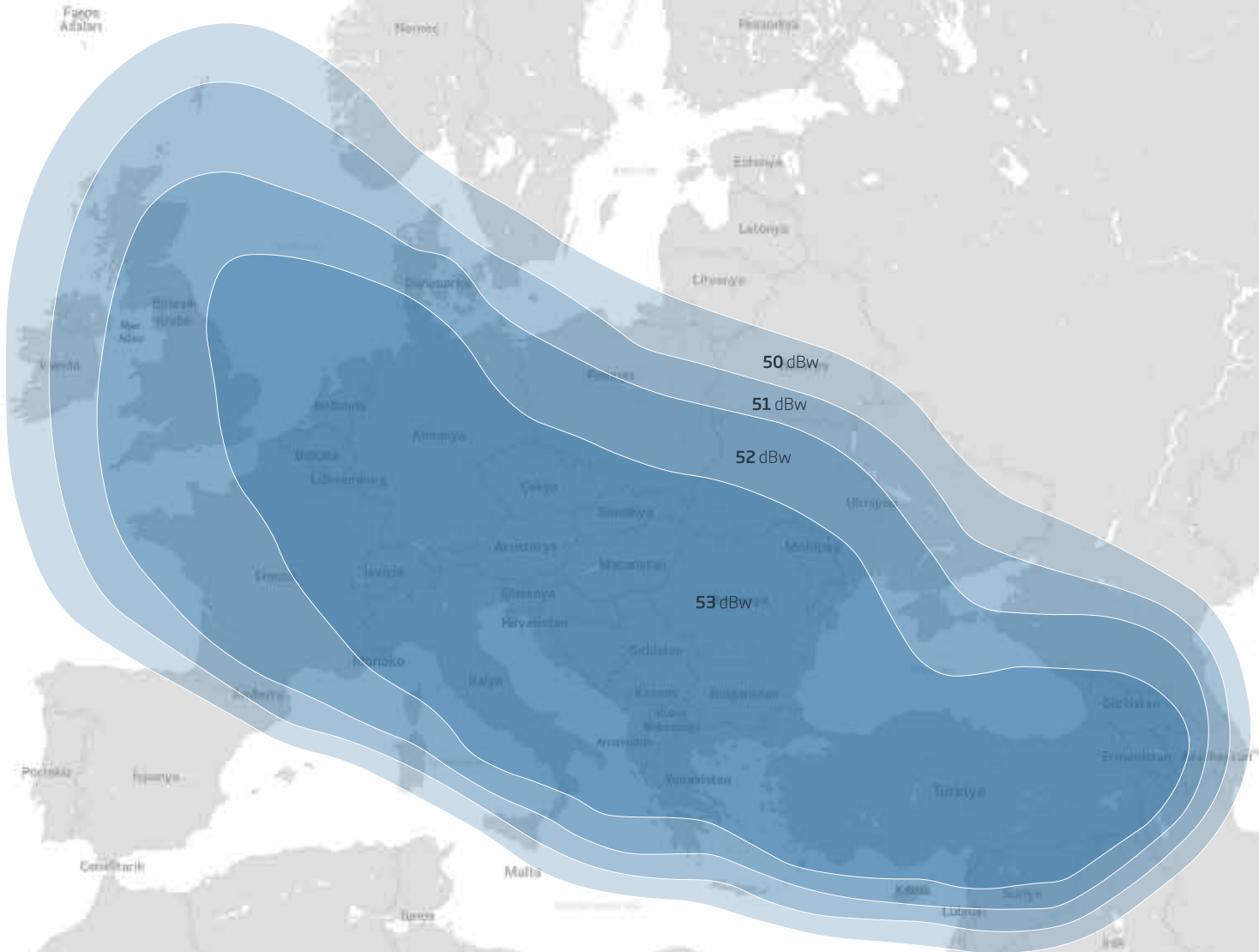


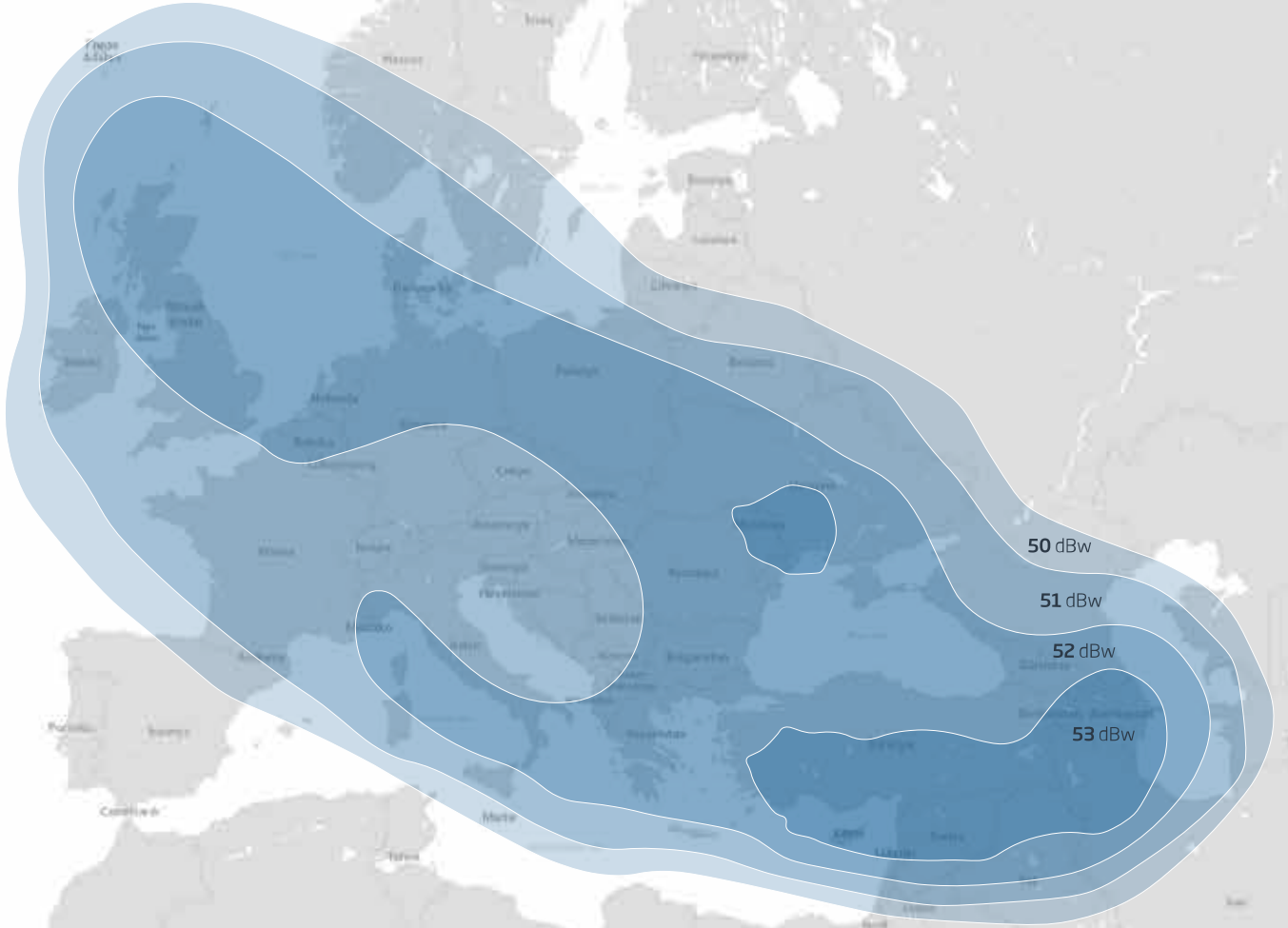
Ku-Bant Orta Doğu Kapsama Alanı
Ku-Band Middle East Coverage Area

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EIRP

Yeni Ku-Bant Batı Kapsama Alanı
New Ku-Band West Coverage Area



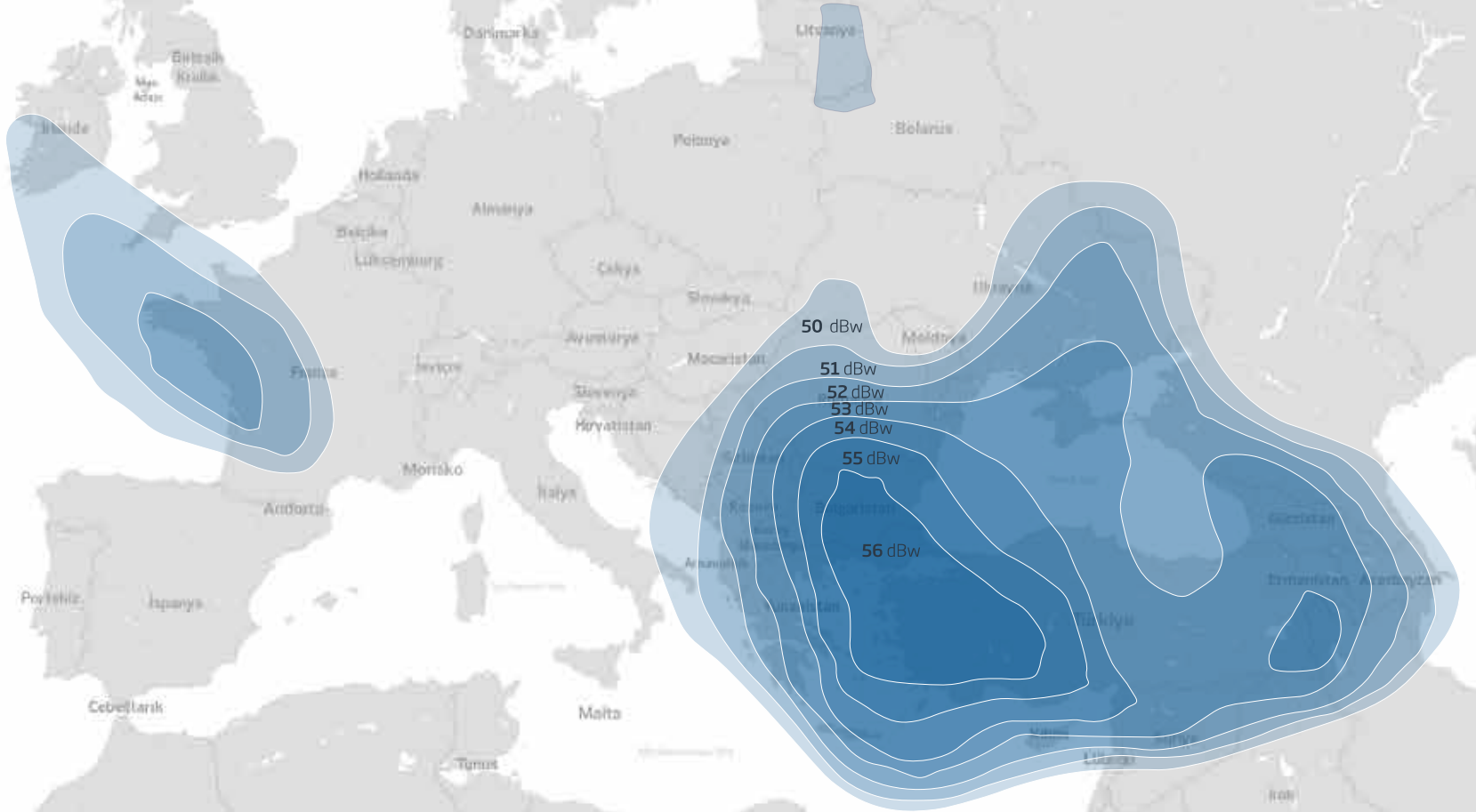


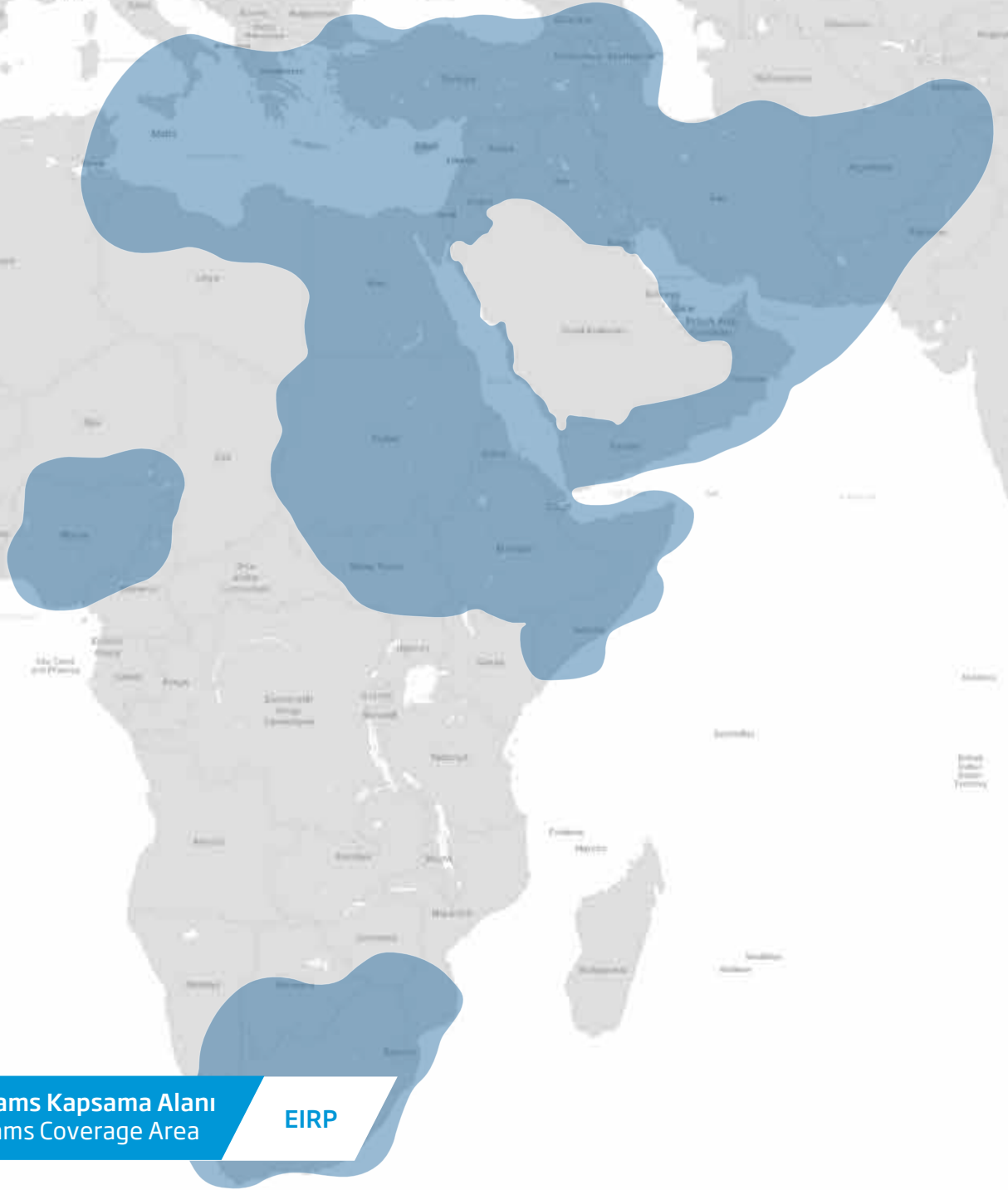
Ku-Bant Batı Kapsama Alanı
Ku-Band West Coverage Area

EIRP

EIRP

Ka-Bant Batı Kapsama Alanı
Ka-Band West Coverage Area





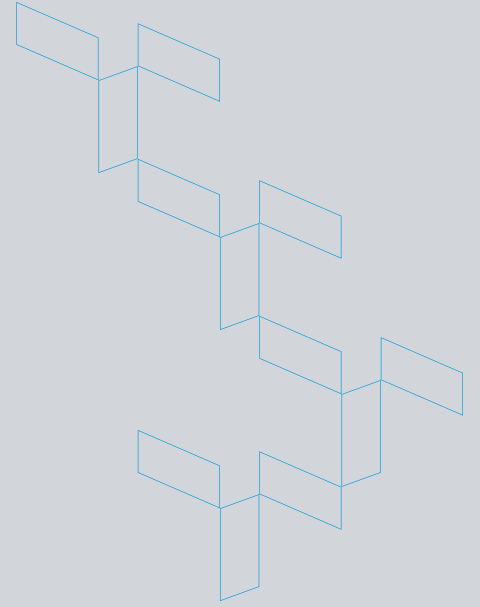
Ka-Band Spotbeams Kapsama Alanı
Ka-Band Spotbeams Coverage Area

EIRP

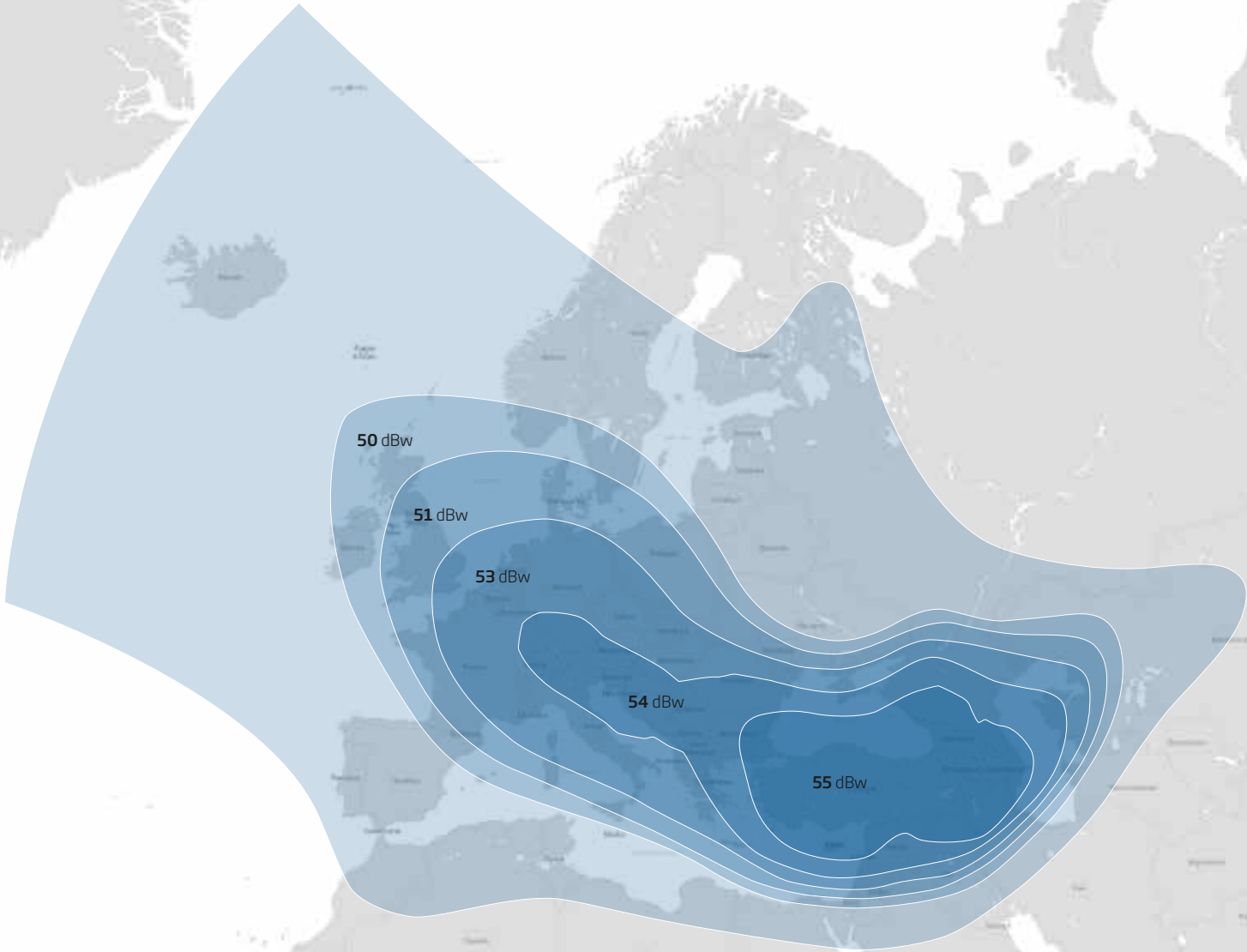


Türksat 5B ile 42° yörüngesinde Ka-Bant hizmeti verilerek, 50 Gbps yeni Ka-Bant kapasitesi arttırılmış ve Türksat 3A ve Türksat 4A uydularının yedekliği sağlanmıştır. Daha fazla bilgi için <https://uydu.turksat.com.tr> adresini ziyaret ediniz.

Türksat 5B at 42 East provides additional 50 Gbps Ka-Band capacity to Türksat fleet and backs up both Türksat 3A and Türksat 4A satellites. To learn more about Türksat 5B, please visit <https://uydu.turksat.com.tr/en>





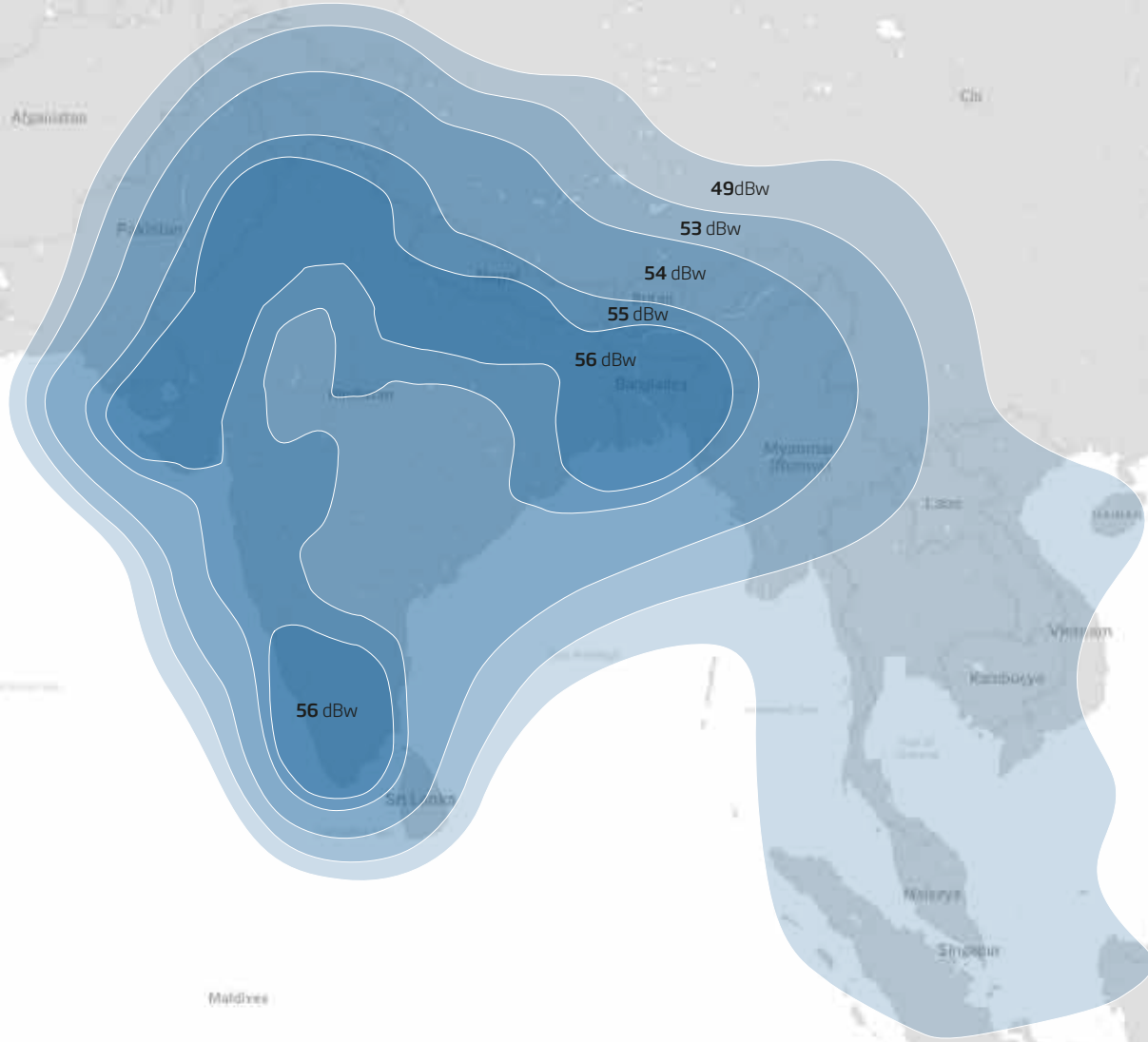


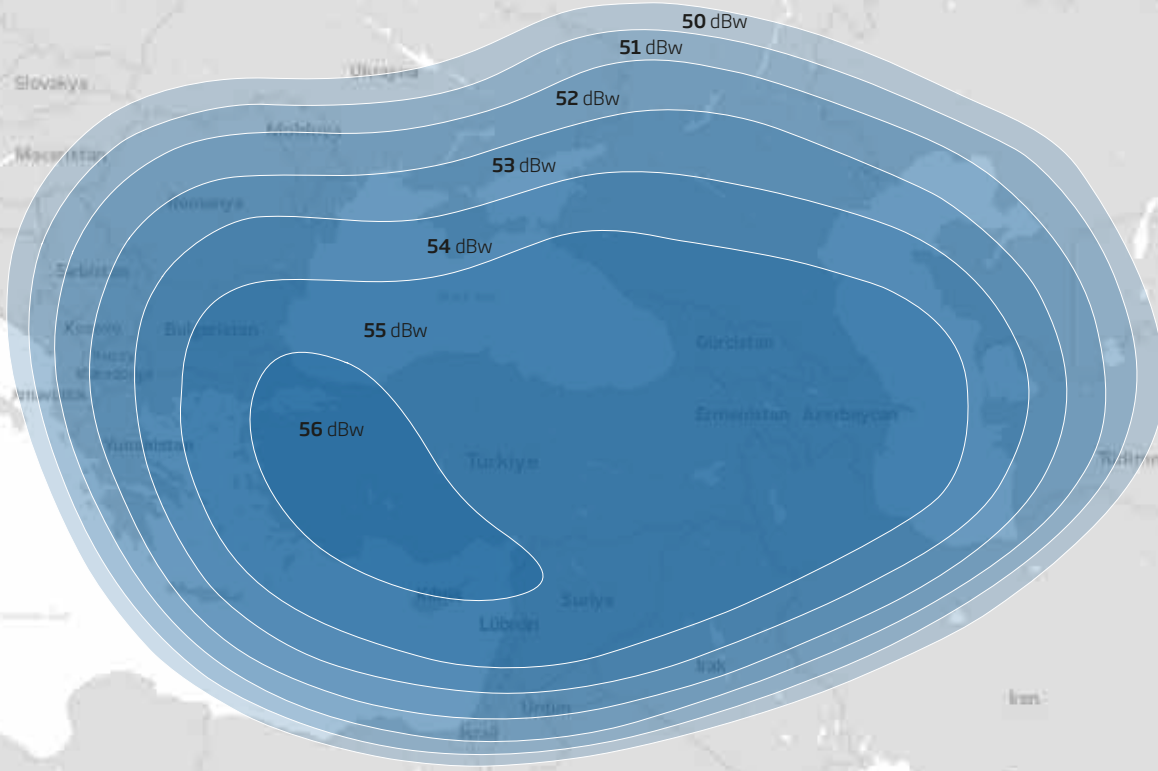
Bati Kapsama Alanı
West Coverage Area

EIRP

EIRP

Güney Asya Kapsama Alanı
South Asia Coverage Area



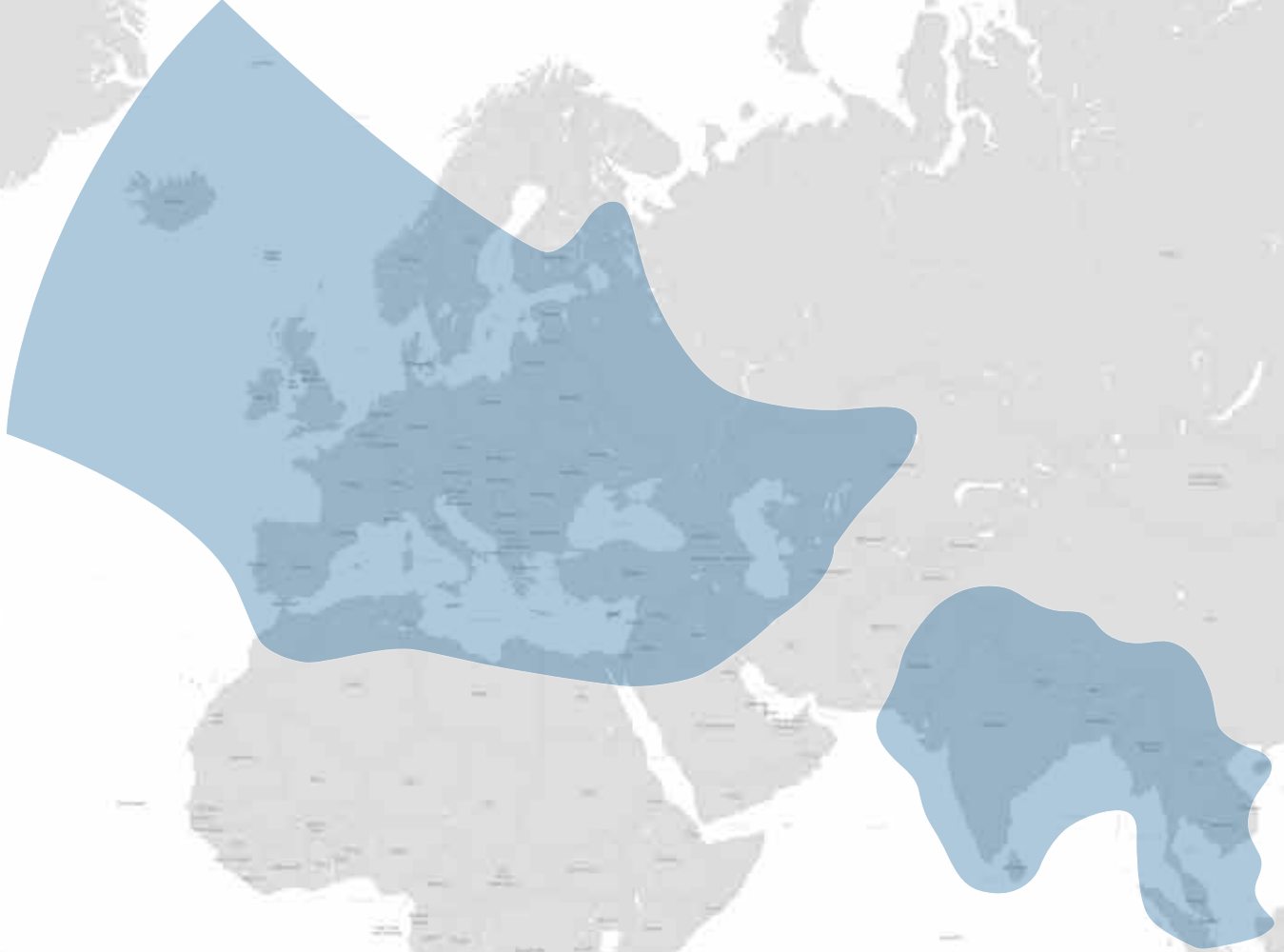


Türkiye Kapsama Alanı
Türkiye Coverage Area

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Birleřtirilmiř Kapsama Alanı
Combined Coverage Area



www.turksat.com.tr



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