

APT SATELLITE COMPANY LIMITED

APT Satellite, an innovative satellite company, delivers broadcasting and communication services to Asia (including the Middle East), Oceania, and most parts of Africa and Europe, extending services to over 75% of the world's population.



About APT Satellite

Based in Hong Kong, APT Satellite Company Limited ("APT Satellite" or "APSTAR") is a leading satellite company operating a fleet of six satellites, namely APSTAR-5C, APSTAR-6C, APSTAR-7, APSTAR-9, APSTAR-6D and APSTAR-6E. The footprints of the fleet cover Asia (including the Middle East), Oceania, and most part of Europe and Africa, extending services to over 75% of world population.

We provide satellite capacity leasing, satellite broadband, MCPC platform, teleport, as well as IDC services to broadcasters and telecommunication customers, offering to a wide range of applications including video contribution and distribution, direct-to-home TV, cellular backhaul, corporate network, maritime and aeronautical mobility.

Our mission is to share, care, and grow with our customers. We will continue expanding and enhancing the scope of services and capability of APSTAR satellite fleet, to ensure we are able to meet the customers' ever-growing demand and keep up with the technology evolution.



Satellite Capacity Leasing Service

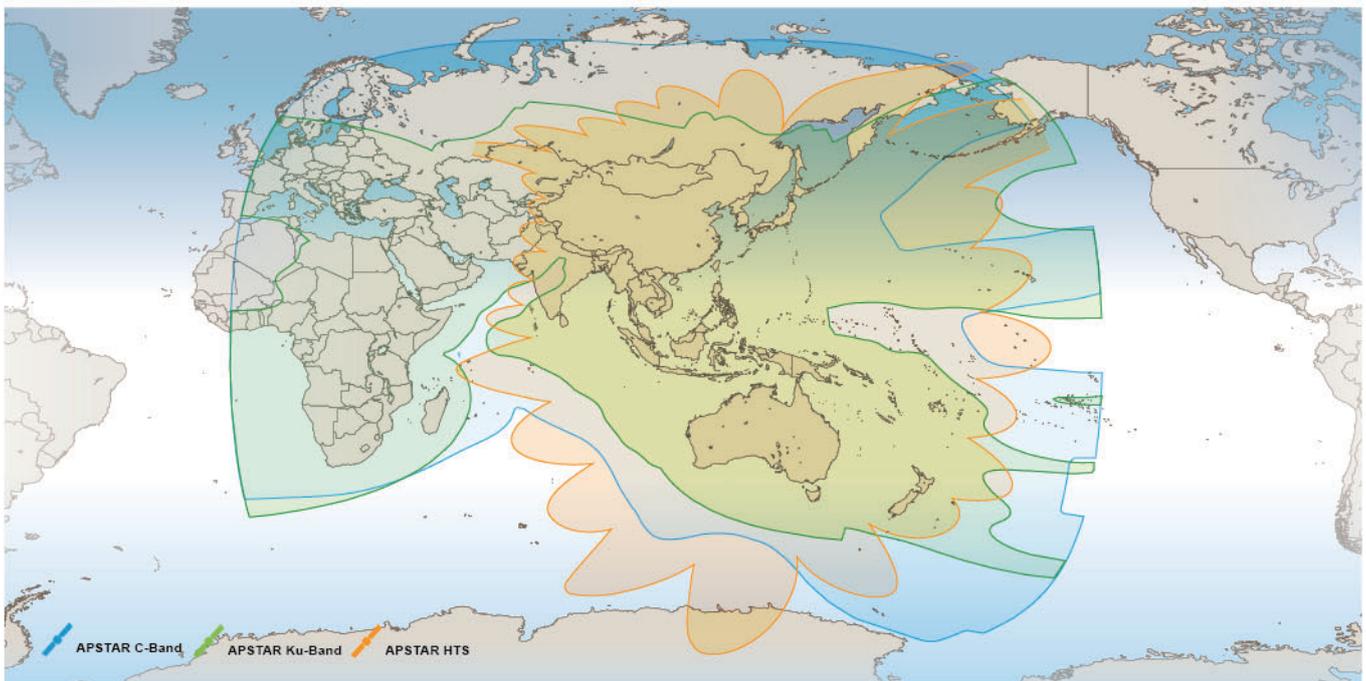
With thirty years of experience in satellite communication, APT Satellite has brought premium and reliable transponder leasing services to our broadcast and telecommunication customers throughout Asia (including the Middle East), Oceania, most part of Europe and Africa. Leveraging experienced technical team and state-of-the-art teleports facilities, we are able to provide non-stopping monitoring and 24/7 technical support to guarantee our customers the highest transmission service integrity. APT Satellite is dedicated to providing a wide range of C-band and Ku-band wide-beam as well as high throughput satellite (HTS) capacity leasing services tailored to your needs.

Full Time Use

Whether you are a TV broadcaster, VSAT operator, or system integrator, our Full Time Use service will offer you an advanced and flexible capacity solution, with guaranteed transponder capacity on 24/7 basis. Full Time Use service are available on all APSTAR satellites, in both C-band and Ku-band and HTS, subject to availability.

Occasional Use

Occasional Use ("OU") service is suitable for those customers who have dynamic demand. By signing an initial OU service agreement, customers can book transponder capacity through a simple service order at a short notice, on a single use basis or at regular intervals. OU service is available on all APSTAR satellites, subject to availability.



Satellite Broadband Service

APT Satellite managed services provide various satellite broadband connectivity resources with a turn-key experience. Our reliable broadband internet service, delivered via APSTAR satellite fleet in Ku-HTS, C- and Ku-band, empowers businesses, organizations and communities stimulating growth and better living standards, no matter how remote the location.

Benefits

Optional service packages
IP gateway transit
Real-time, always on, broadband connection with unlimited capacity

24x7 network operation and customer support

Supports Virtual Network Operation

Features

- Single hop between cross-continental beams in C- and Ku-band
- High speed IP gateway connections in various Asian spots
- Twin-gateway to provide geo-diversification in tropical areas
- CIR is guaranteed

Broadband Service Plan

Contention Ratios	1:1, 1:2, 1:4, 1:8, 1:10, 1:20
Service Packets	512k/256kbps, 1024k/512kbps, 2048k/512kbps, 2048k/1024kbps,

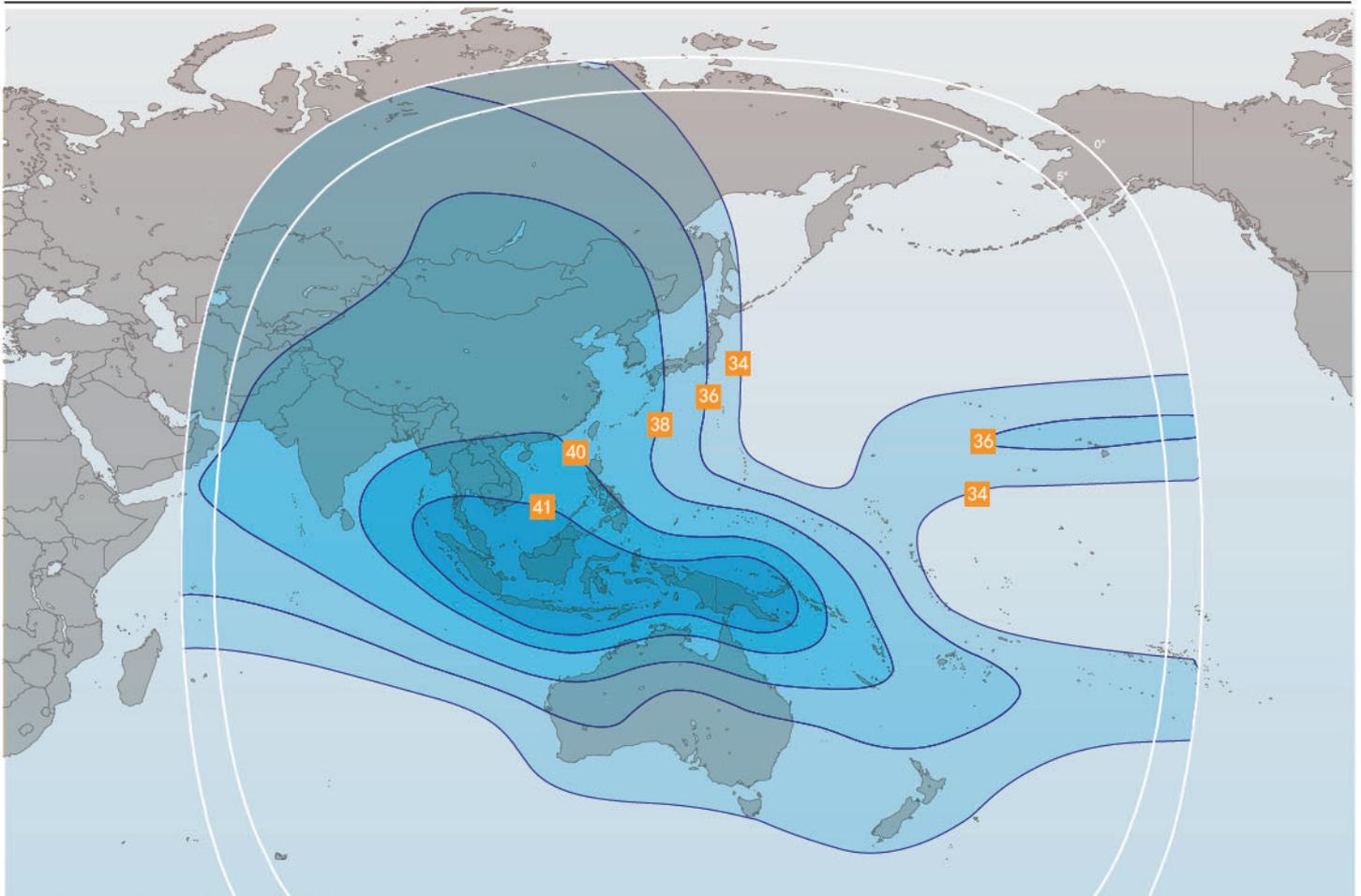
APSTAR-5C @ 138°East

General Information:

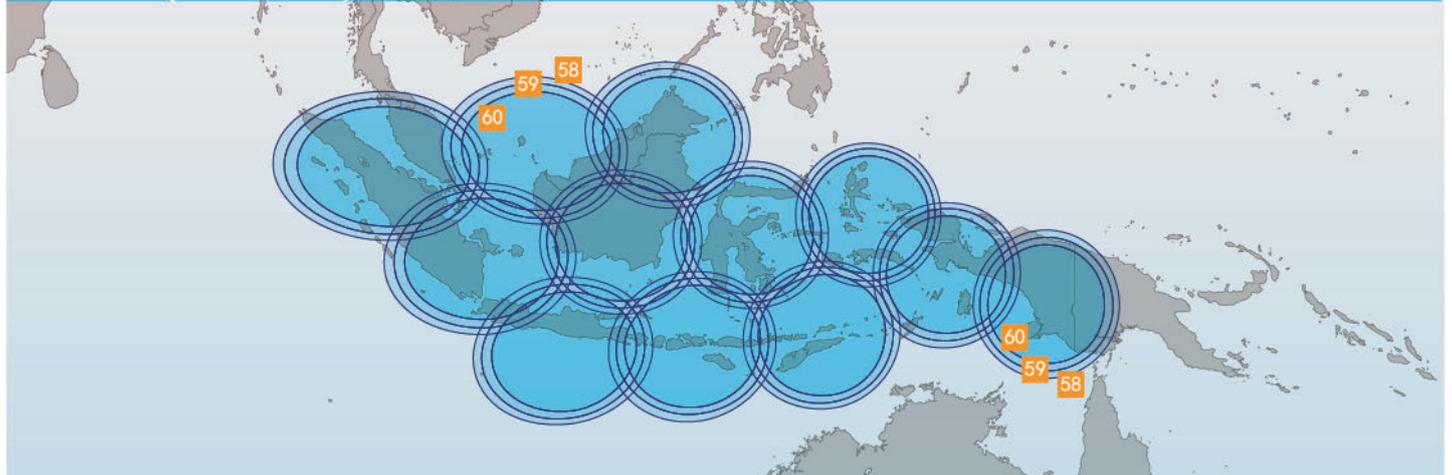
Platform: FS-1300	Launch Date: September, 2018	Orbital Slot: 138°E
Life Time: >15 years	Transponders: 34 C-Band, 32 Ku-Band Regional Ku-HTS	Gain Control: FGM and ALC
Peak EIRP: C-Band: 41 dBW Ku-Band: 58 dBW Ku-Band(HTS): 60 dBW	Peak G / T: C-Band: 0 dB/K Ku-Band: 12 dB/K Ku-Band(HTS): 14 dB/K	Polarization: Dual Linear

Satellite Coverage (EIRP,dBW)

C-Band (AP Beam)



Ku-Band (HTS Beams)



APSTAR-5C @ 138°East

General Information:

Platform: FS-1300
Life Time: >15 years

Launch Date: September, 2018
Transponders: 34 C-Band, 32 Ku-Band
 Regional Ku-HTS

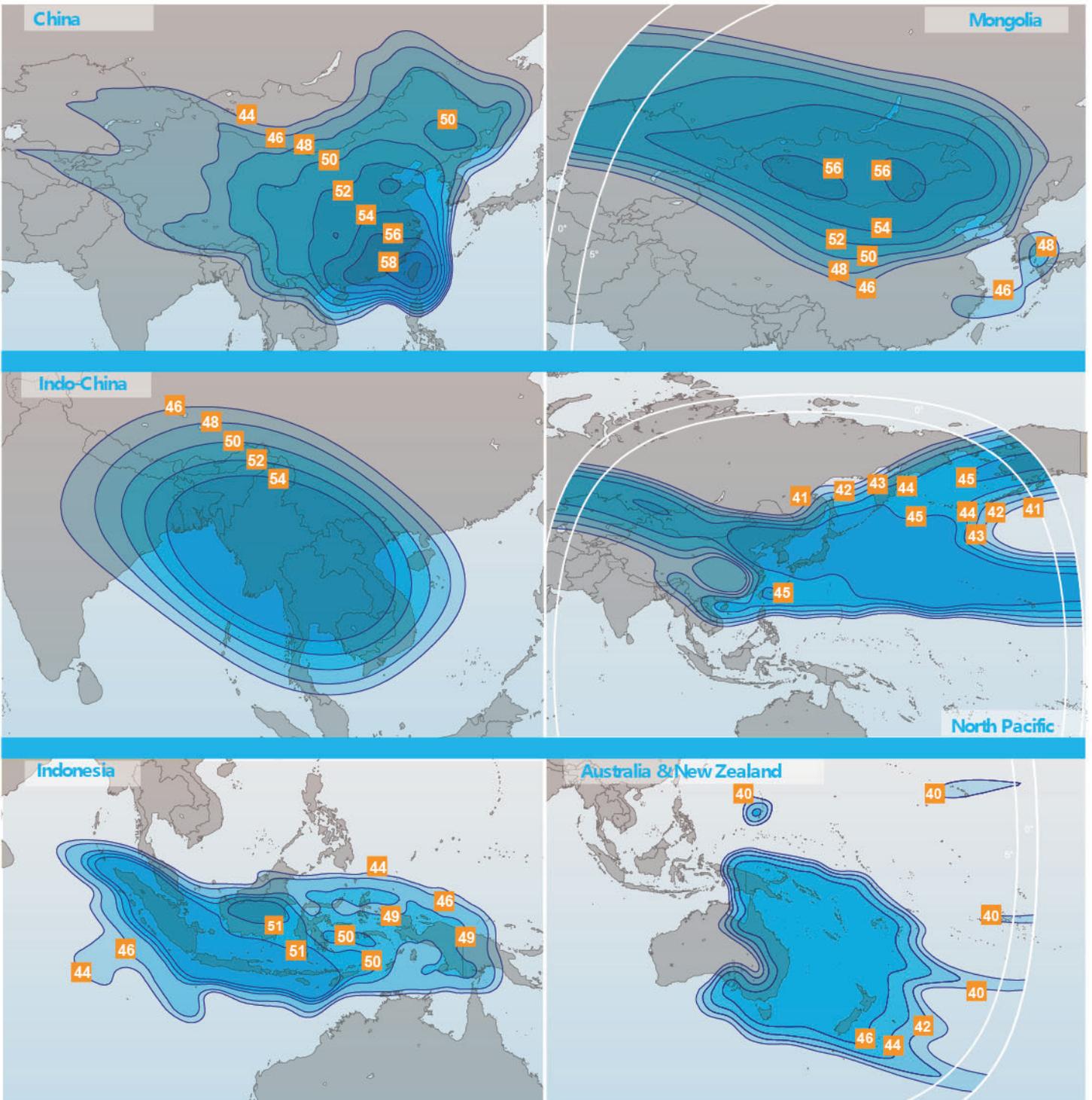
Orbital Slot: 138°E
Gain Control: FGM and ALC
Polarization: Dual Linear

Peak EIRP: C-Band: 41 dBW
 Ku-Band: 58 dBW
 Ku-Band(HTS): 60 dBW

Peak G / T: C-Band: 0 dB/K
 Ku-Band: 12 dB/K
 Ku-Band(HTS): 14 dB/K

Satellite Coverage (EIRP,dBW)

Ku-Band



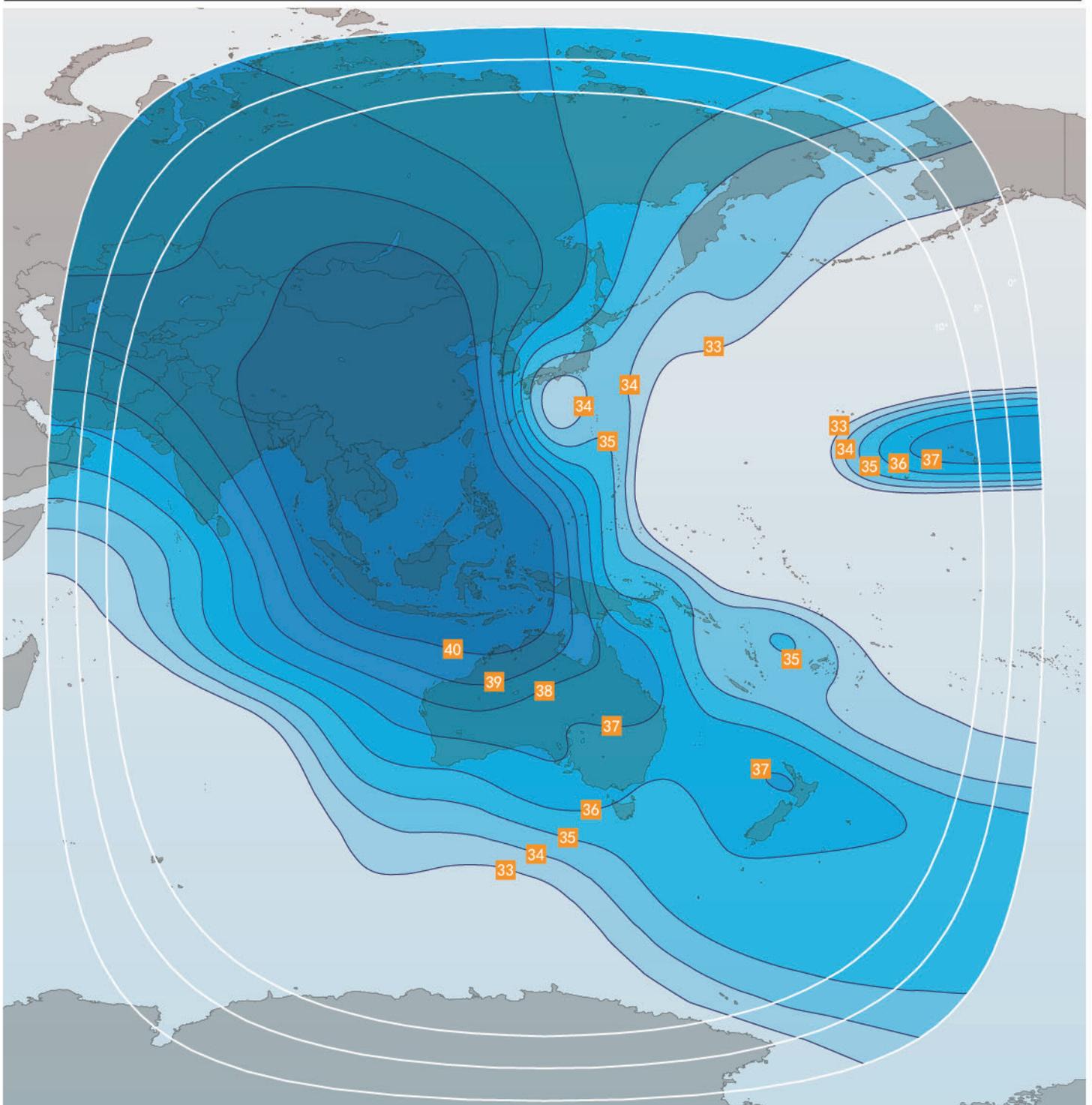
APSTAR-6C @ 134°East

General Information:

Platform: DFH-4	Launch Date: April, 2018	Orbital Slot: 134°E
Life Time: >15 years	Transponders: 32 C-Band, 20 Ku-Band, Ka-Band	Gain Control: FGM and ALC
Peak EIRP: C-Band: 41 dBW Ku-Band: 59 dBW	Peak G / T: C-Band: 0 dB/K Ku-Band: 13 dB/K	Polarization: Dual Linear

Satellite Coverage (EIRP,dBW)

C-Band (AP Beam)



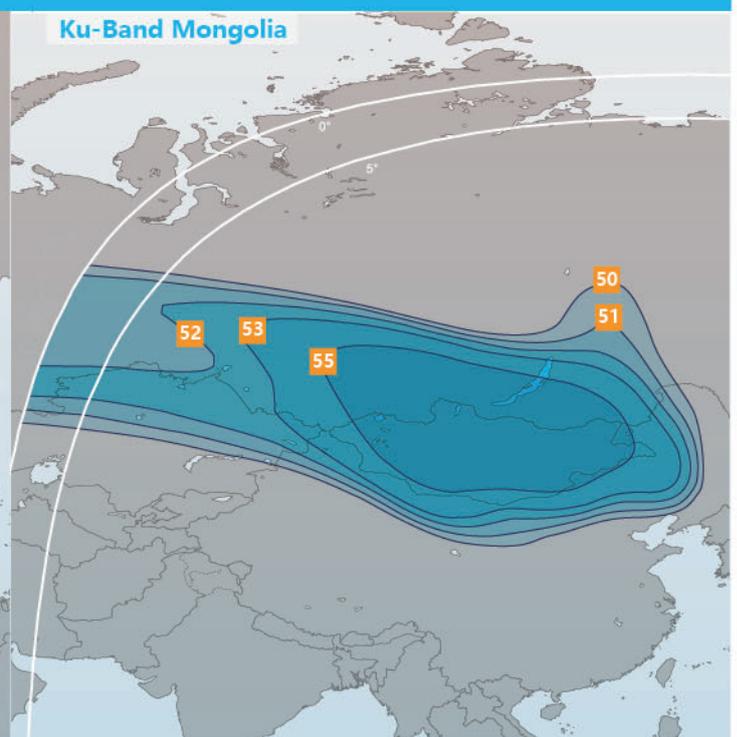
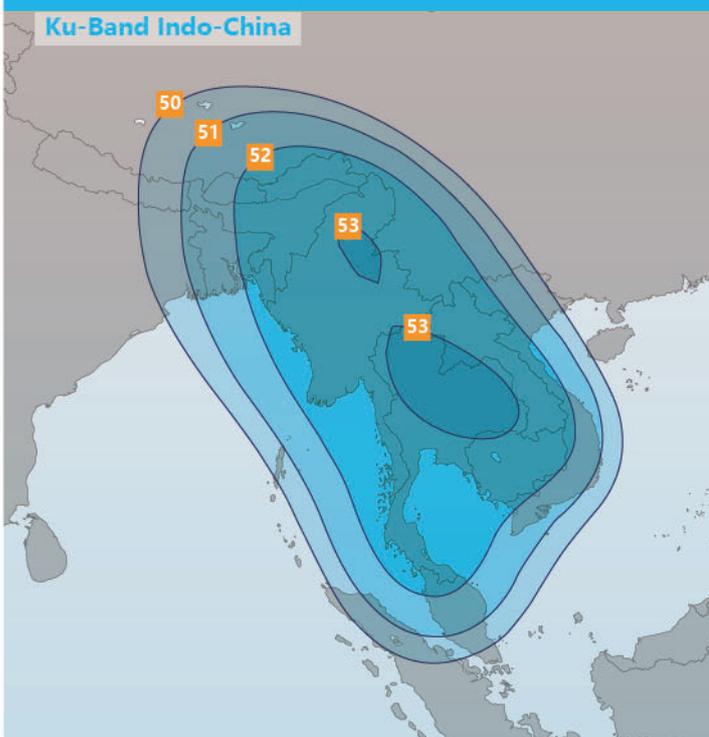
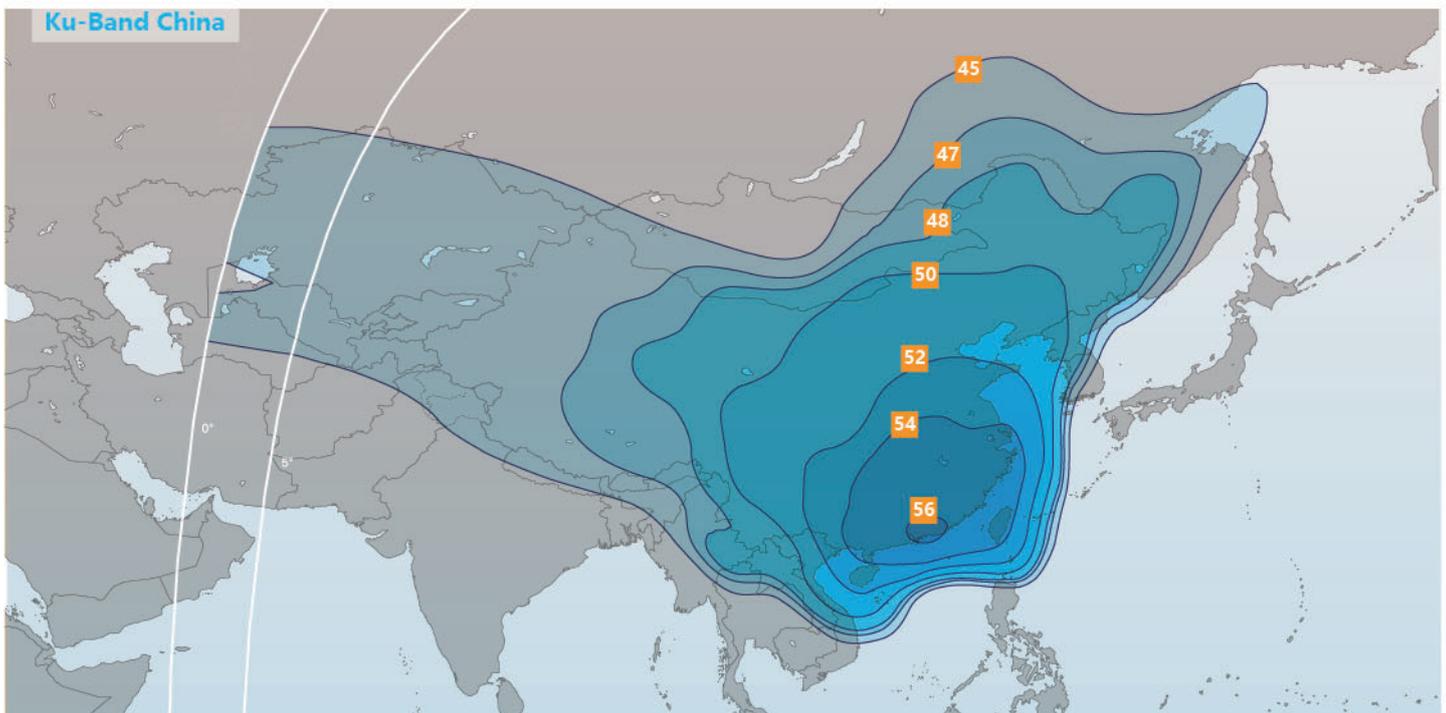
APSTAR-6C @ 134°East

General Information:

Platform: DFH-4	Launch Date: April, 2018	Orbital Slot: 134°E
Life Time: >15 years	Transponders: 32 C-Band, 20 Ku-Band, Ka-Band	Gain Control: FGM and ALC
Peak EIRP: C-Band: 41 dBW Ku-Band: 59 dBW	Peak G / T: C-Band: 0 dB/K Ku-Band: 13 dB/K	Polarization: Dual Linear

Satellite Coverage (EIRP, dBW)

Ku-Band



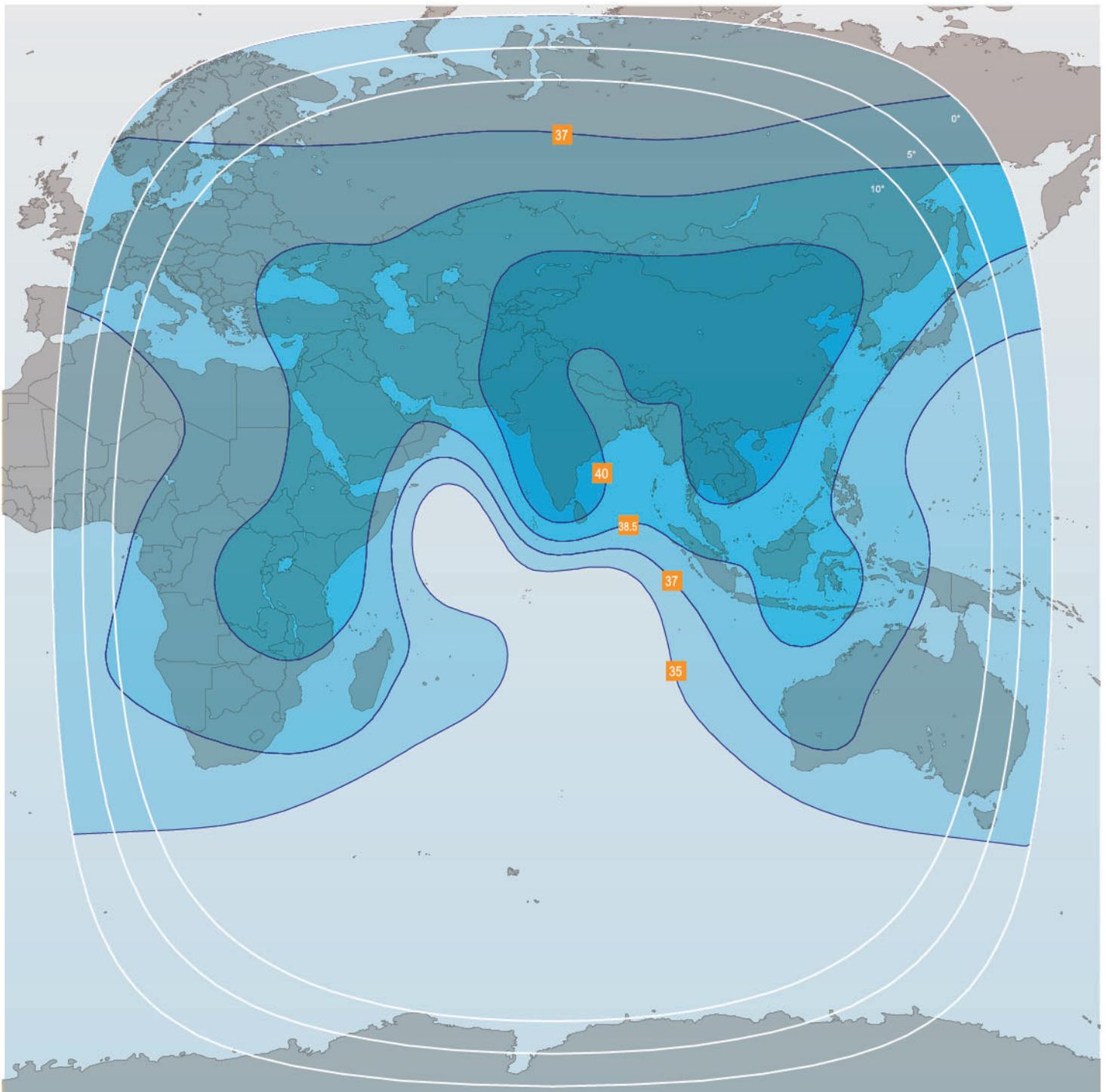
APSTAR-7 @ 76.5 °East

General Information:

Platform:	SPACEBUS 4000 C2	Launch Date:	March, 2012	Orbital Slot:	76.5°E
Life Time:	>15 years	Transponders:	28 C-Band, 28 Ku-Band		
Peak EIRP:	C-Band: 41 dBW	Gain Control:	FGM and ALC		
Peak G / T:	C-Band: 1 dB/K	Polarization:	Dual Linear		

Satellite Coverage (EIRP, dBW)

C-Band



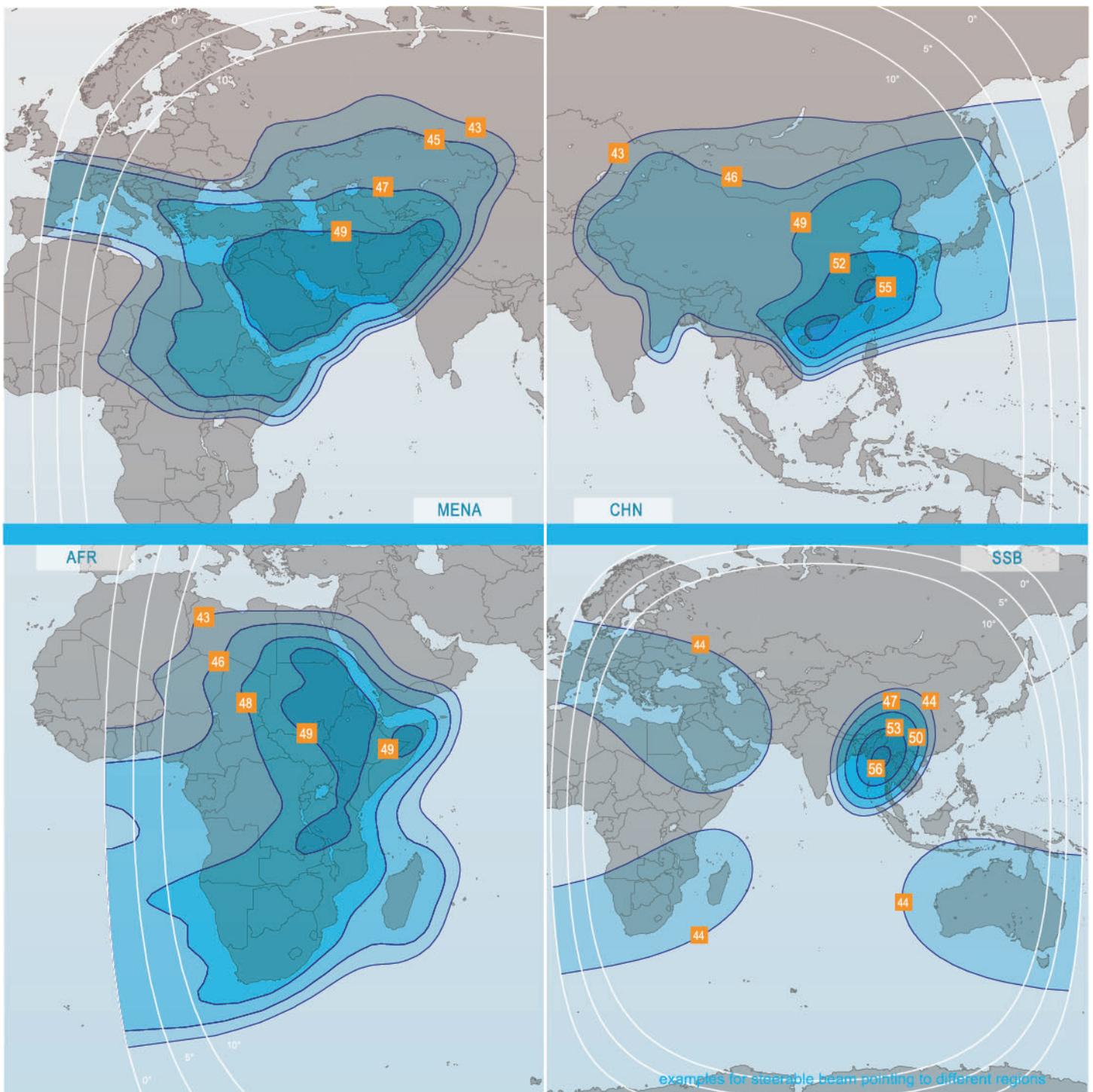
APSTAR-7 @ 76.5 °East

General Information:

Platform: SPACEBUS 4000 C2	Launch Date: March, 2012	Orbital Slot: 76.5°E
Life Time: >15 years	Transponders: 28 C-Band, 28 Ku-Band	
Peak EIRP: Ku-Band: 56 dBW	Gain Control: FGM and ALC	
Peak G / T: Ku-Band: 11 dB/K	Polarization: Dual Linear	
	Interconnectivity: Interconnectivity and Selectivity between 4 Ku beams	

Satellite Coverage (EIRP, dBW)

Ku-Band (MENA, CHN, AFR, SSB)



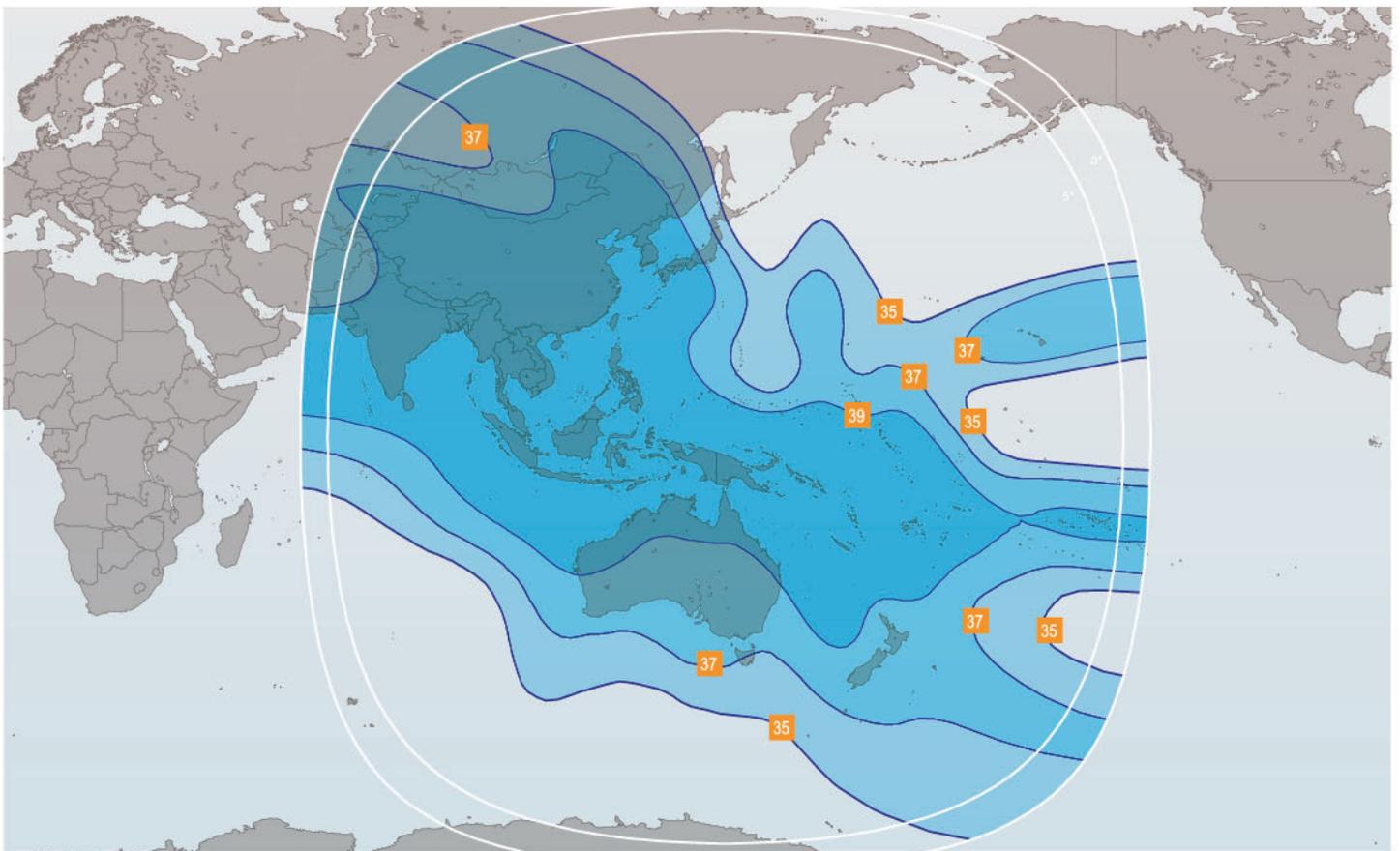
APSTAR-9 @ 142 °East

General Information:

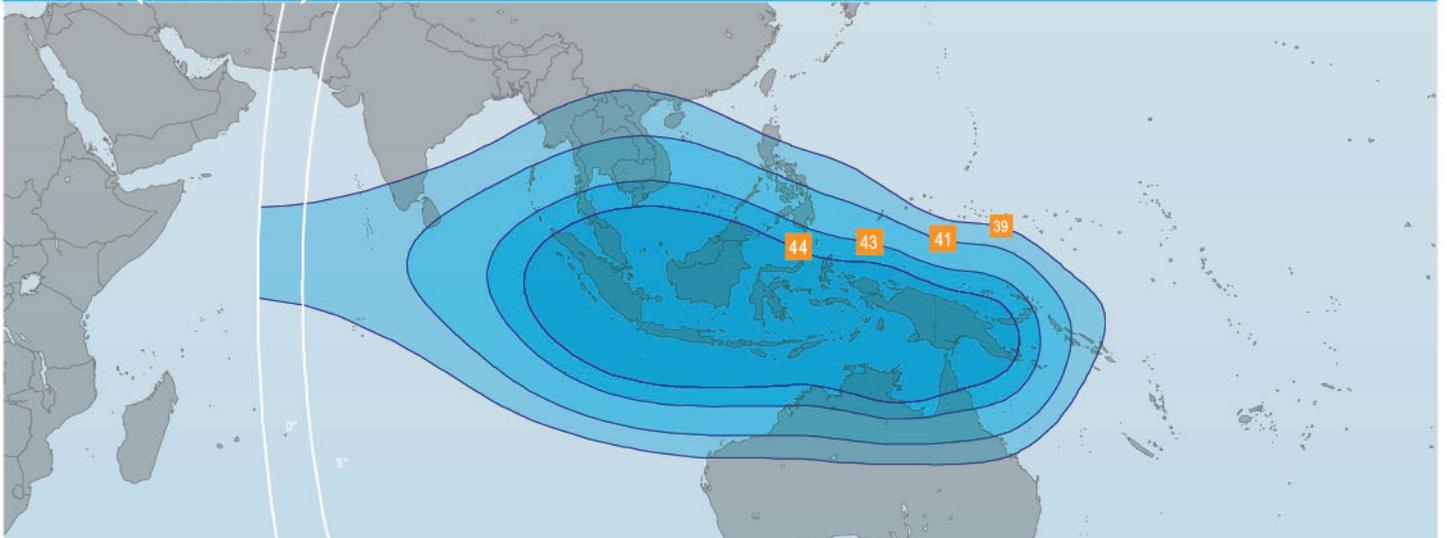
Platform: DFH-4	Launch Date: October, 2015	Orbital Slot: 142°E
Life Time: >15 years	Transponders: 32 C-Band, 14 Ku-Band	
Peak EIRP: C-Band: 44 dBW	Gain Control: FGM and ALC	
Peak G / T: C-Band: 2 dB/K	Polarization: Dual Linear	

Satellite Coverage (EIRP, dBW)

C-Band (AP Beam)



C-Band (SEA Beam)



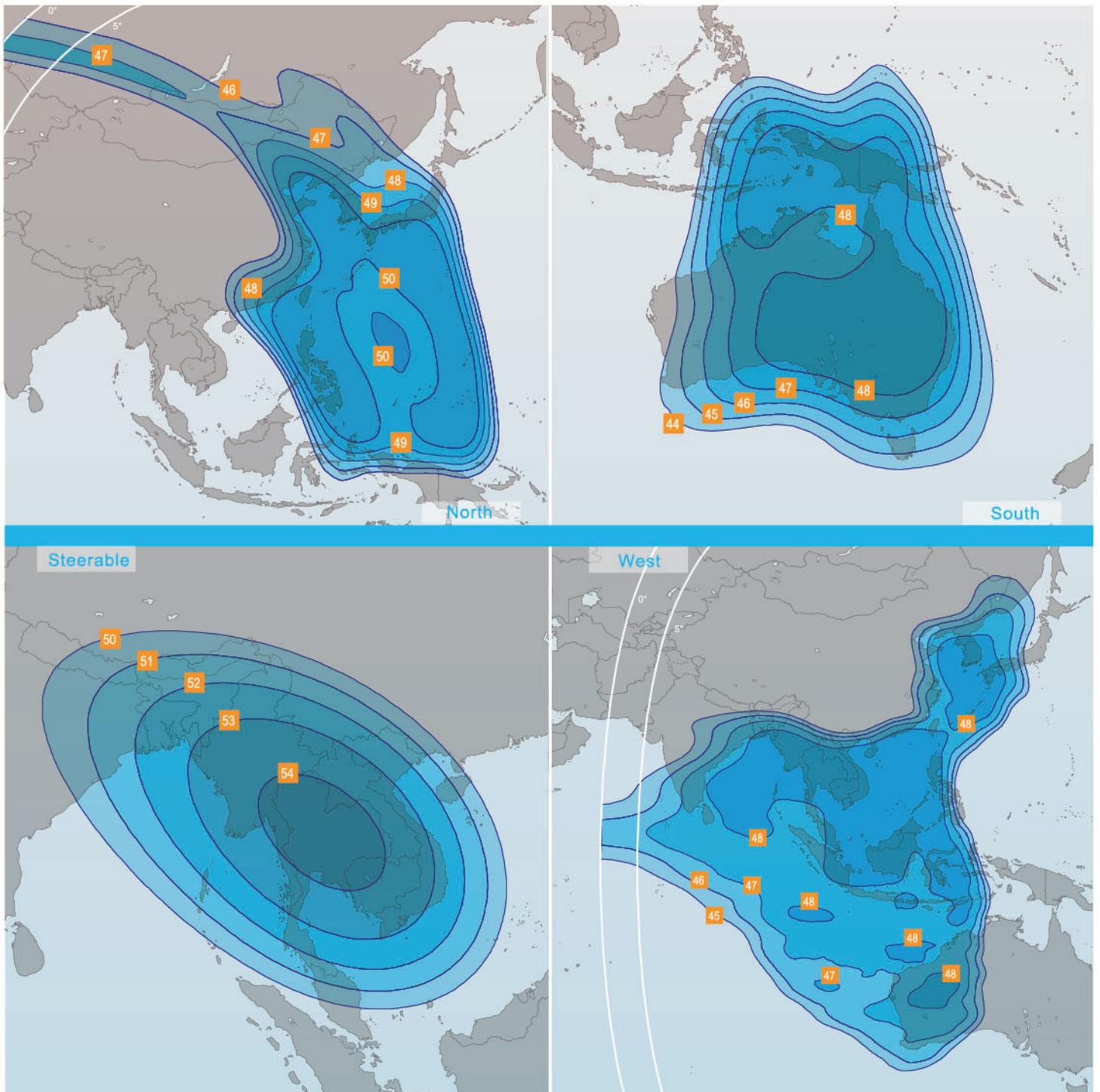
APSTAR-9 @ 142 °East

General Information:

Platform: DFH-4	Launch Date: October, 2015	Orbital Slot: 142°E
Life Time: >15 years	Transponders: 32 C-Band, 14 Ku-Band	
Peak EIRP: Ku-Band: 54 dBW	Gain Control: FGM and ALC	
Peak G/T: Ku-Band: 8 dB/K	Polarization: Dual Linear	

Satellite Coverage (EIRP, dBW)

Ku-Band(North,South,Steerable,West)



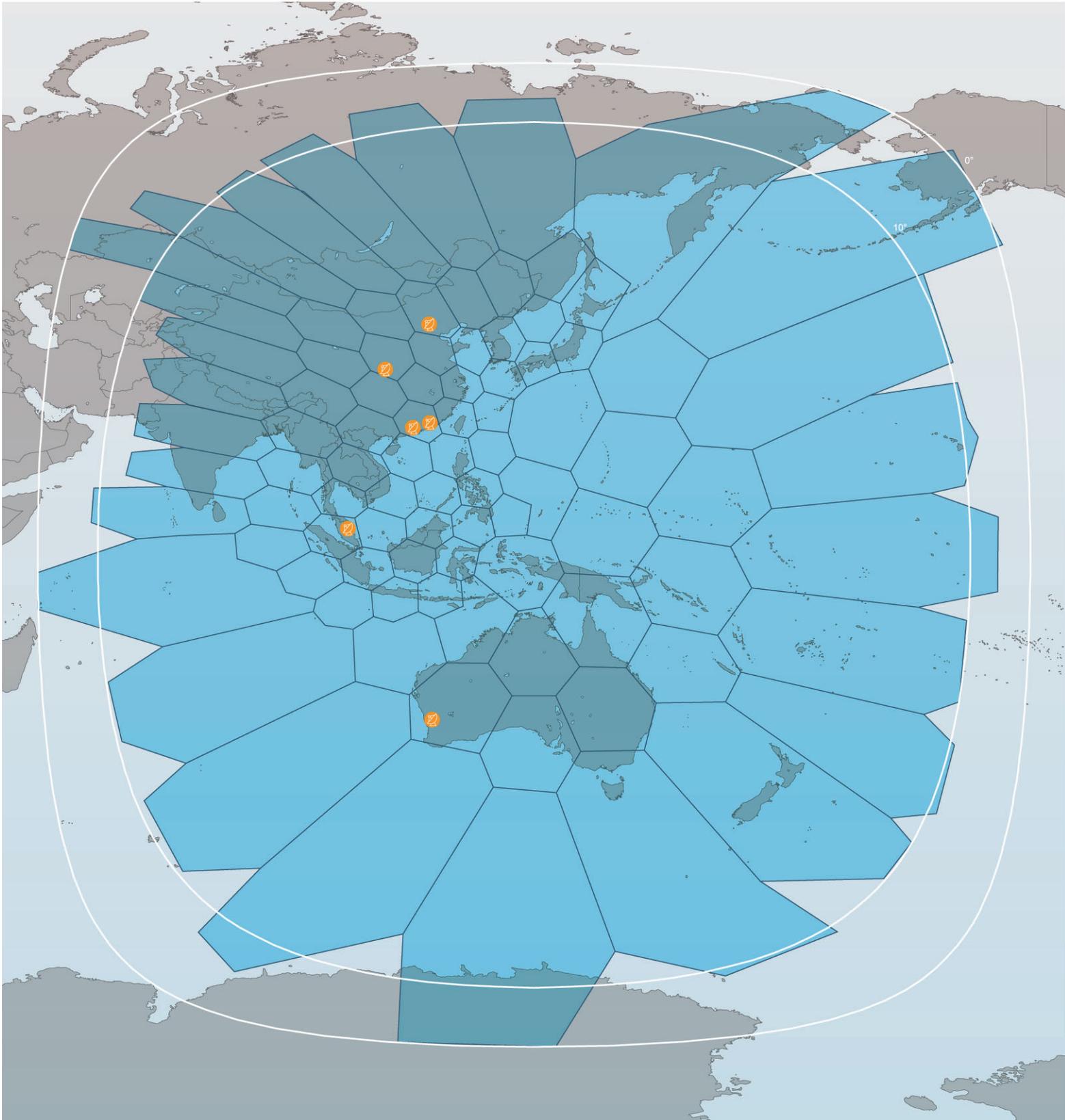
APSTAR-6D @ 134°East

Satellite Information:

Platform :	DFH-4E	Launch Date :	9 July 2020
Life Time :	≥15 years	Capacity :	>50 Gbps
Orbital Slot :	134°E	User Beams :	90 Beams
Frequency :	Ku for user beams, Ka for gateways		
Peak EIRP :	65.8 dBW	Peak G/T :	19.1 dB/K
Features:	<ul style="list-style-type: none">• Performance enhancement for key air and sea traffic routes and areas.• Power and bandwidth flexible allocation.		

Gateway Information:

- Kuala Lumpur, Perth, Beijing, Shenzhen, Xi'an, Hong Kong
- 13.2m Ka-band Antennas with mono-pulse tracking
- Geographical diversity design in tropical area
- IDC and IP transit capabilities
- Open architecture catering to customers' need



APSTAR-6E / MPSat-3 @ 134°East

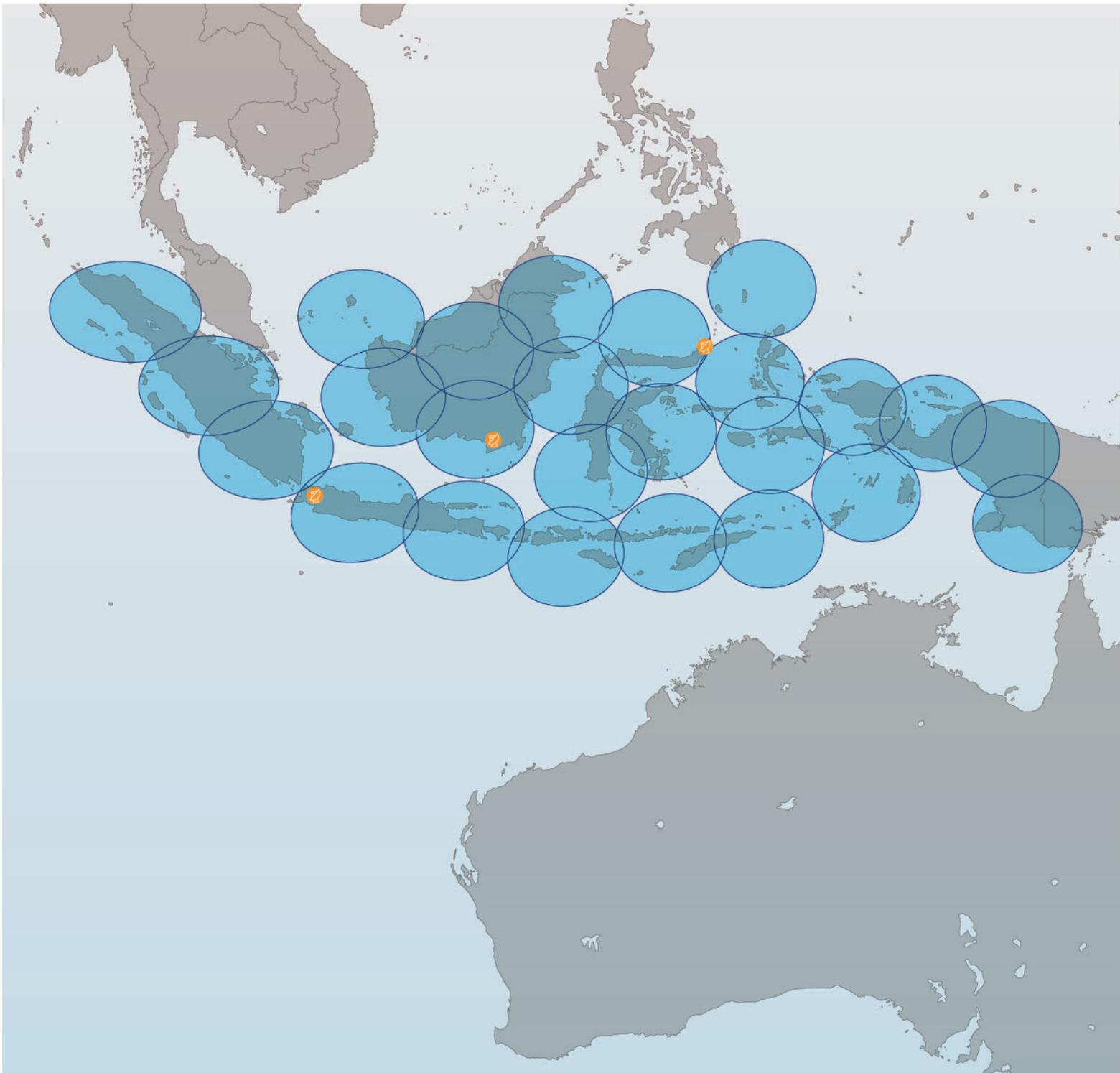
Satellite Information:

Platform :	DFH-3E	Commission :	26 Nov 2024
Life Time :	≥15 years	Capacity :	>30 Gbps
Orbital Slot :	134°E	User Beams :	25 Beams
Frequency :	Ku for user beams, Ka for gateways		
Peak EIRP :	67.4 dBW	Peak G/T :	19.9 dB/K
Features:	<ul style="list-style-type: none">• Performance tailored for Indonesian market• Power and bandwidth flexible allocation		

Gateway Information:

- Jakarta, Banjarmasin, Manado (construction in phases)
- 9.4m Ka-band Antennas with mono-pulse tracking
- Geographical diversity design
- IDC and IP transit capabilities
- Open architecture catering to customer's need

Satellite Coverage (EIRP,dBW)



MCPC Platform Service

APT Satellite offers several MCPC (Multi Channel Per Carrier) broadcast platforms on APSTAR satellites, with broad coverage of APSTAR satellite fleet, our MCPC platform provides cost-effective solution for both regional and international broadcaster to distribute their content to cable head-end or provide Direct-to-Home (DTH) services across different continents.

Advantages

- Broad coverage throughout Asia Pacific, Middle East, most of Africa & Europe
- Tier-1 TV neighborhood
- High cable head-end penetration rate in Asia-Pacific region
- State-of-the-art Satellite TV broadcast platform, uplink/downlink facilities with hot redundancy
- One-stop solution

Features

- DVB-S2, 4K HD or SD
- Conditional Access: Irdeto
- Turnkey playout service and solution



Internet Data Center (IDC) Service

- IBM Level 3 Data Center Standard (equivalent to Tier-3+)
- Certified ISO-27001

Advantages

- Ideal IDC & DR location at HK and oversea
- Self-owned property to provide long-term business commitment
- Carrier Neutral – connecting with variety of IP Gateways
- Different local loop circuit providers (minimizing connection cost)
- Equipped with Satellite backhaul facilities
- Low cost of IP transit to China and International



Teleport Service

APT Satellite operates a comprehensive network of teleports and associated infrastructure in Indonesia, Malaysia, Australia, Hong Kong S.A.R., and in mainland China (hosted in APSatcom, an associated company of APT Satellite), offering highly reliable and flexible teleport services for high throughput satellite, wide-beam GEO satellites, and prospective LEO/MEO constellations.

All teleport facilities consist of sophisticated equipment and highly reliable and redundant auxiliary system, which are connected with reliable ground fibre networks.

In tropical regions such as South East Asia, a geographically-diversified twin gateway scheme is adopted to overcome rain-fade issues and maintain high system availability.

APT Satellite teleports offer an extensive variety of data, video, and hosting services:

- **Data Services:**
VSAT, SCPC, VNO, Satellite Backhaul
- **Video Services:**
Playout, MCPC, Downlink & Uplink, Turn-around, Occasional Uses
- **Hosting Services:**
Equipment hosting, M&C, Co-location





Principal Office
22 Dai Kwai Street, Tai Po Industrial Estate,
Tai Po, New Territories, Hong Kong
Tel: +852-2600 2100
Fax: +852-2666 7838
Email: sales@apstar.com

