23.5°E

ASTRA

ASTRA 3B

ASTRA 3B provides distribution of DTH and DTC broadcast services, and also hosts high-speed internet access platform ASTRA2Connect. The satellite offers coverage of Europe and the Middle East with 60 Ku-band and 4 Ka-band transponders. ASTRA 3B is located at 23.5°E, ASTRA's third prime orbital position.

Satellite facts

Launch date	24.03.2010
Launch site	Kourou, French Guiana
Launch mass	5,460 kg
Satellite manufacturer	EADS Astrium
Orbital location	23.5° east
Stabilization system	3-axis type
Total power consumption	10,100 W
Transponder capacity	64
Eclipse protection	yes
Transponder bandwidth	36/33 MHz

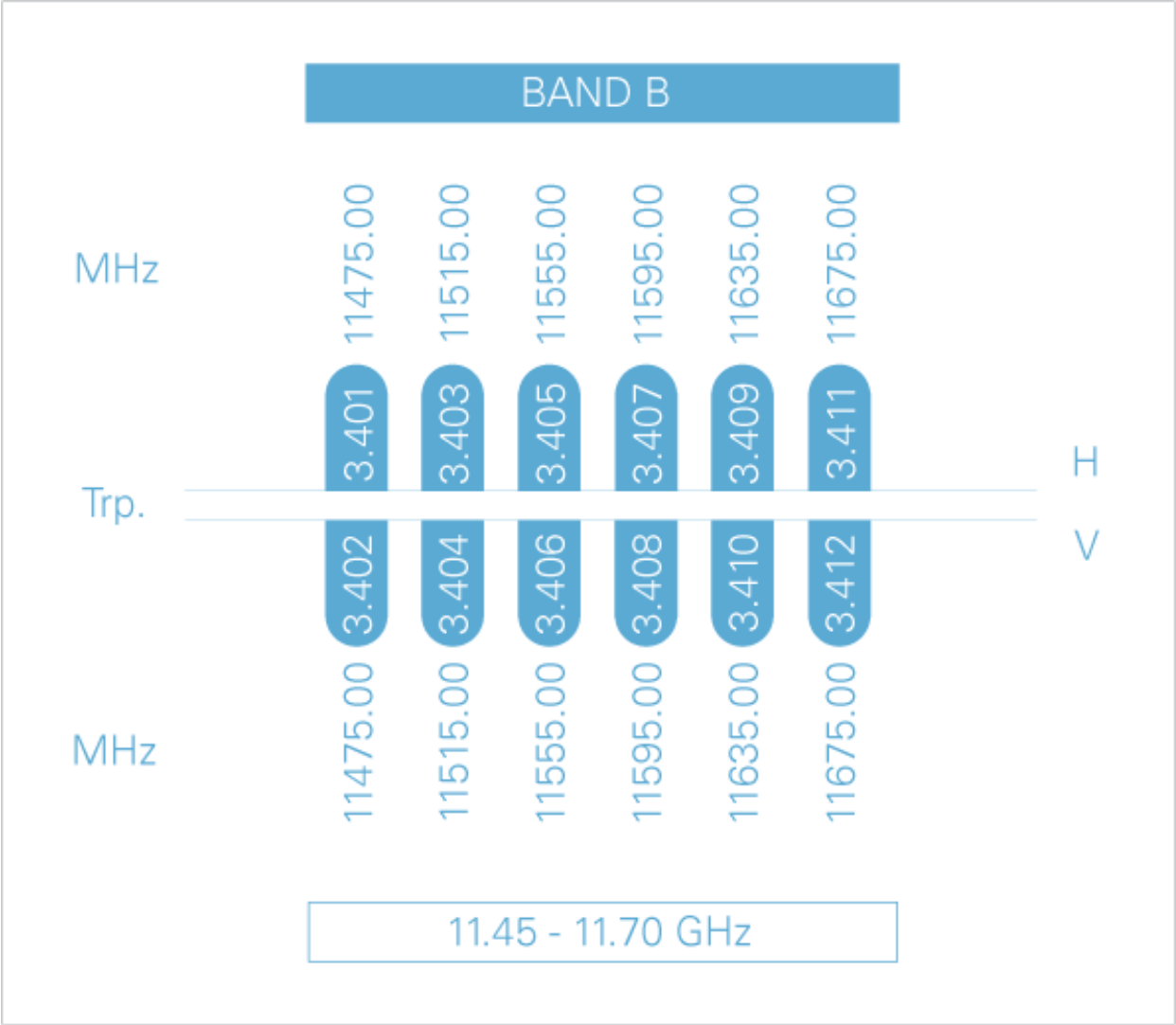## Channel capacity

Total Ku-band channels	60
11.45-11.70 GHz	12 channels (band B)
11.70-12.10 GHz	20 channels (band E)
12.10-12.50 GHz	20 channels (band F)
12.50-12.75 GHz	12 channels (band G)

Total Ka-band channels	4
21.40-22.00 GHz	4 channels

Channel number allocations and downlink centre frequencies:

Europe

Middle East

BAND B

MHz

| 11475.00 | 11515.00 | 11555.00 | 11595.00 | 11635.00 | 11675.00 |

Trp.

| 3.401 | 3.403 | 3.405 | 3.407 | 3.409 | 3.411 | H

| 3.402 | 3.404 | 3.406 | 3.408 | 3.410 | 3.412 | V

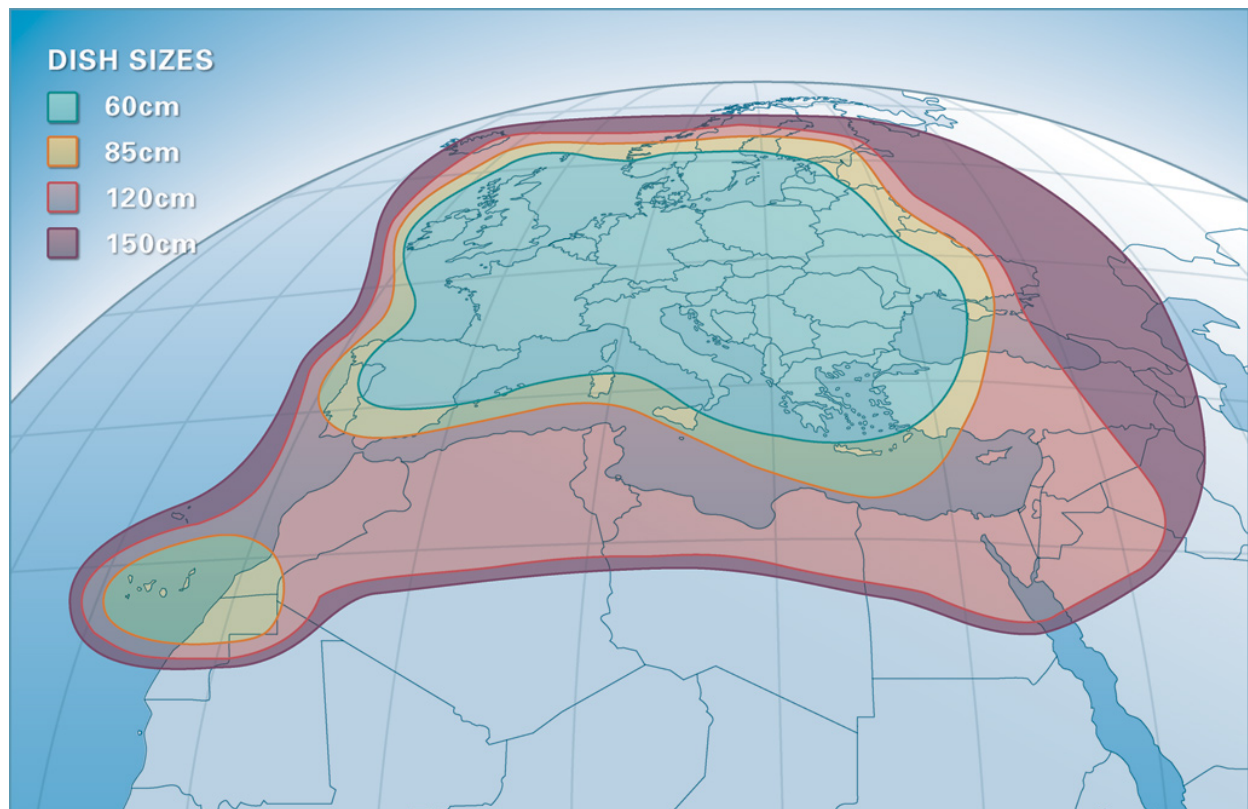| 11475.00 | 11515.00 | 11555.00 | 11595.00 | 11635.00 | 11675.00 |

MHz

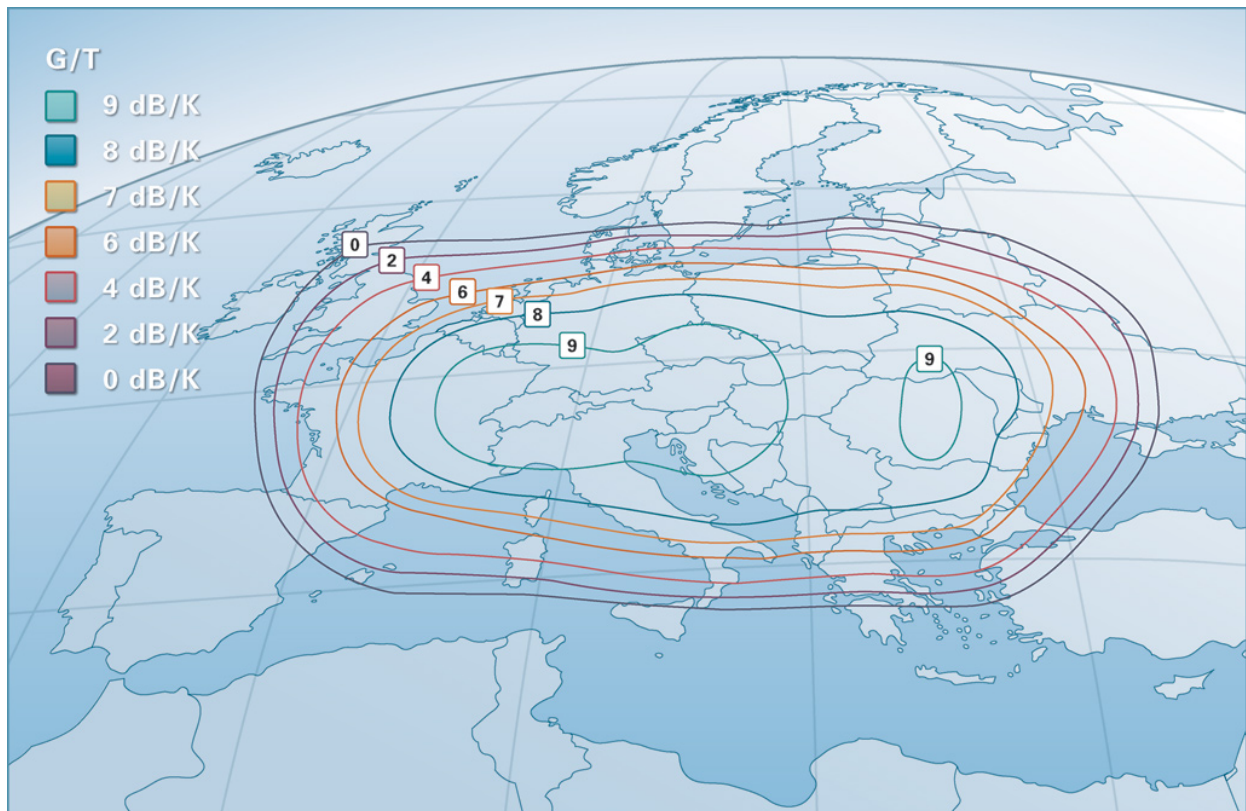11.45 - 11.70 GHz

Footprints

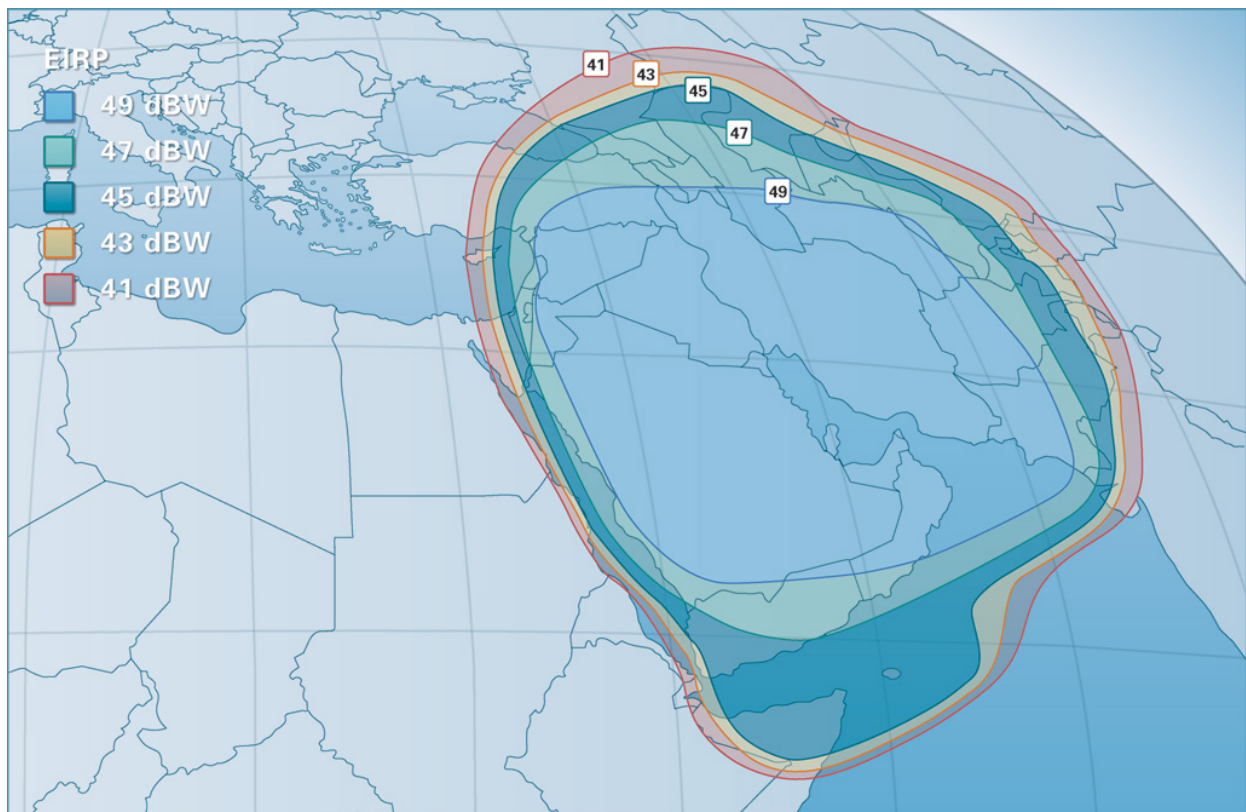European beam downlink
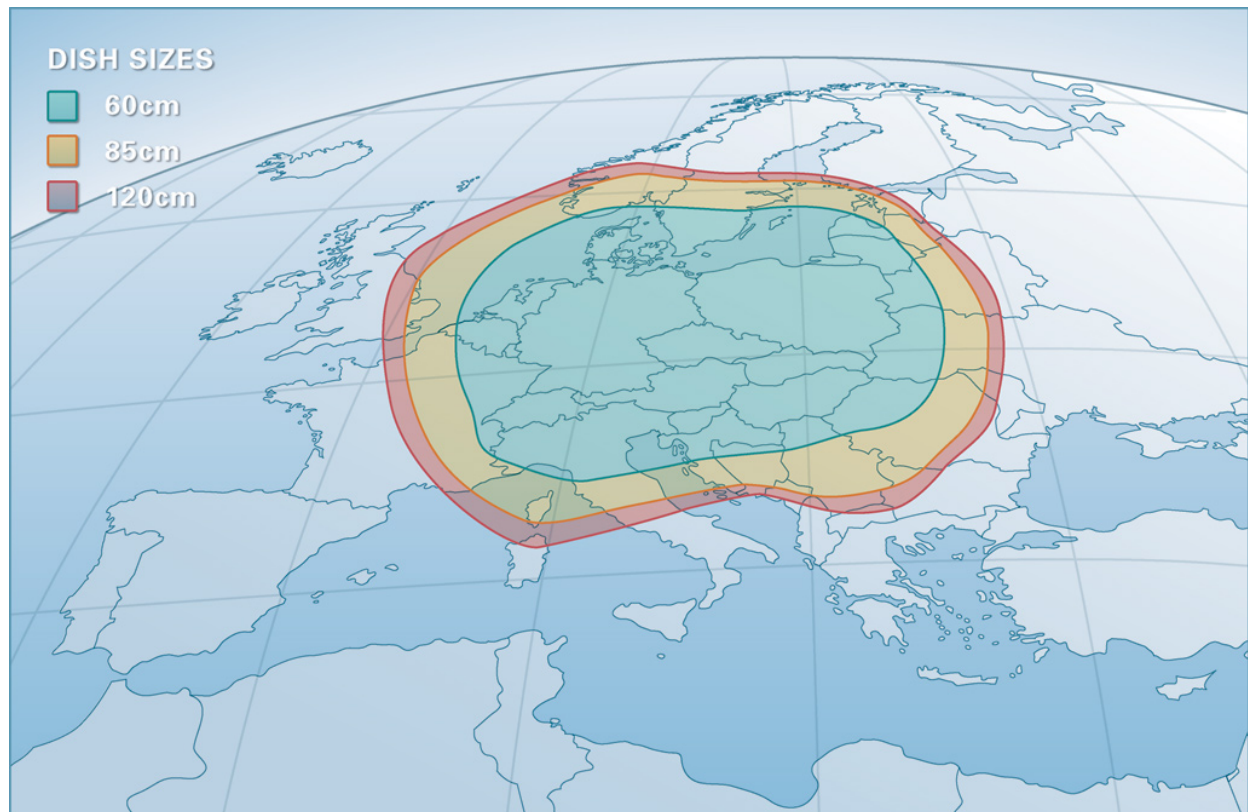
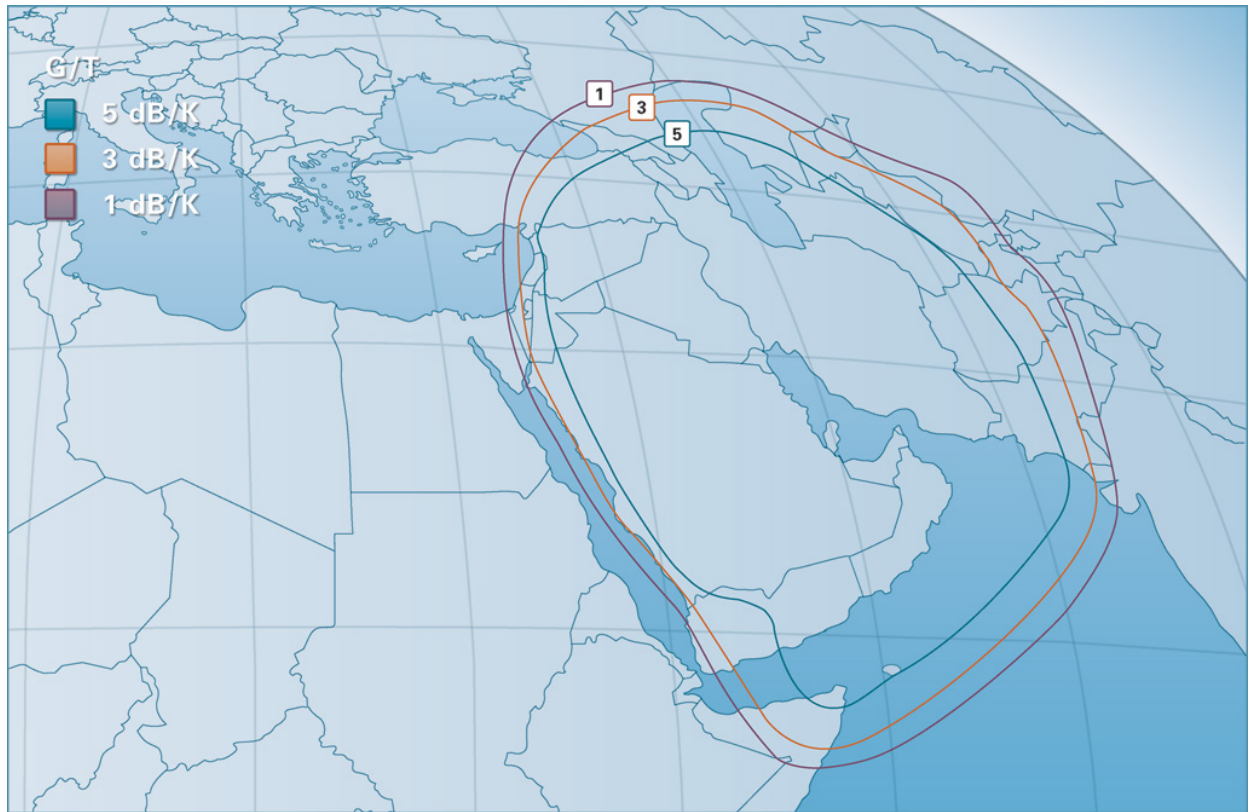Pan-European wide beam downlink

Middle East spot beam uplink Europe

Middle East spot beam downlink Middle East

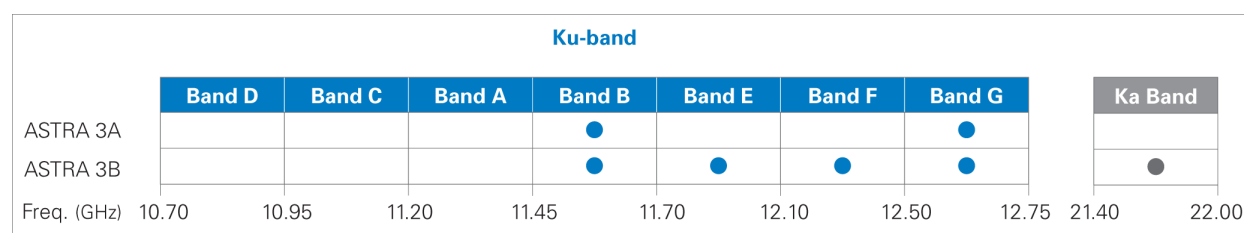Middle East spot beam uplink Middle East

ASTRA orbital positions and back-up

ASTRA pioneered satellite co-location at single orbital positions, which can provide customers with the insurance of in-orbit back-up.

This system is ideal for channel growth, and guarantees the best operational security and reliability.

Co-location allows you to extend your services and gives viewers more choice from the same DTH reception equipment.

23.5°E

			Ku-band						Ka Band
	Band D	Band C	Band A	Band B	Band E	Band F	Band G		Ka Band
ASTRA 3A				●			●		
ASTRA 3B				●	●	●	●		●
Freq. (GHz)	10.70	10.95	11.20	11.45	11.70	12.10	12.50	12.75	21.40 22.00

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