ASTRA 1E - 19.2° EAST

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Direct-to-Home services

The ASTRA 1E satellite is located at 19.2° East, ASTRA's prime orbital position for Direct-to-Home services, providing capacity mainly for the transmission of broadcast and broadband multimedia services to consumer audiences in continental Europe.

SATELLITE INFORMATION

Satellite launch information

Launch date: 19.10.1995
Launch vehicle: Ariane 42 L, Flight 79
Launch site: Kourou, French Guiana
Launch mass: 3014 kg

Satellite orbital information

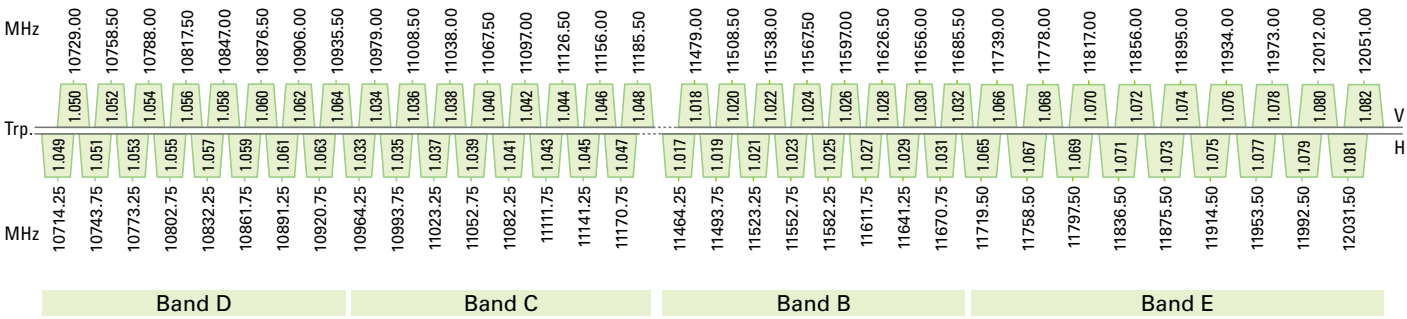
Satellite manufacturer: Hughes
Orbital location: 19.2° East
Stabilization system: 3 axis type
Expected lifetime: 14 years
Total power consumption: 4150 Watts

Satellite transponder information

Transponder capacity: 18
TWTA output power: 85 Watts
EIRP: 51 dBW
All transponders are eclipse protected
Transponder bandwidth: 26 MHz in FSS
33 MHz in BSS

CHANNEL CAPACITY

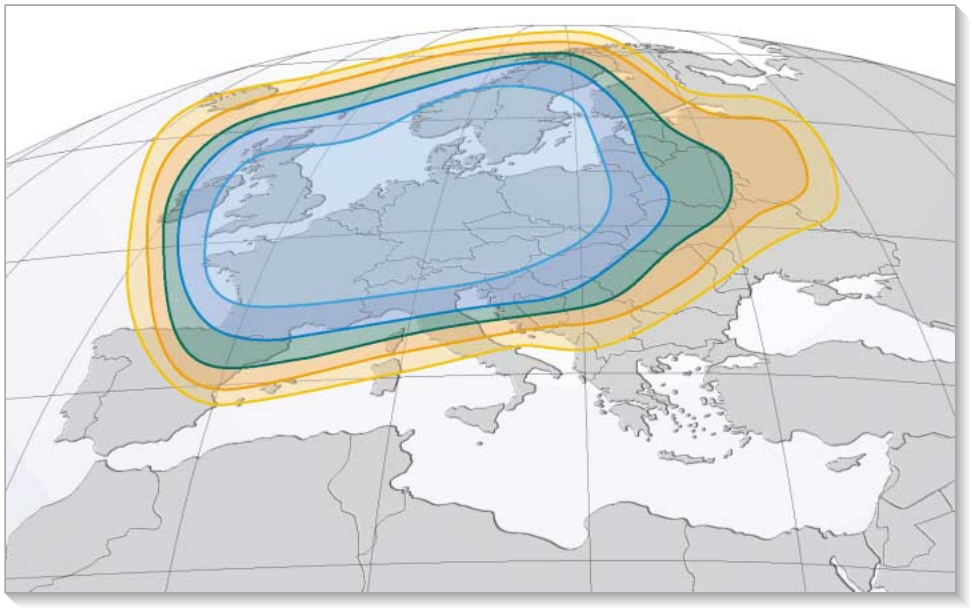
Total: 66 channels • 10.70 - 10.95 GHz: 16 channels (Band D) • 10.95 - 11.20 GHz: 16 channels (Band C)
11.45 - 11.70 GHz: 16 channels (Band B) • 11.70 - 12.10 GHz: 18 channels (Band E)
Channel Number Allocation and Downlink Centre Frequencies



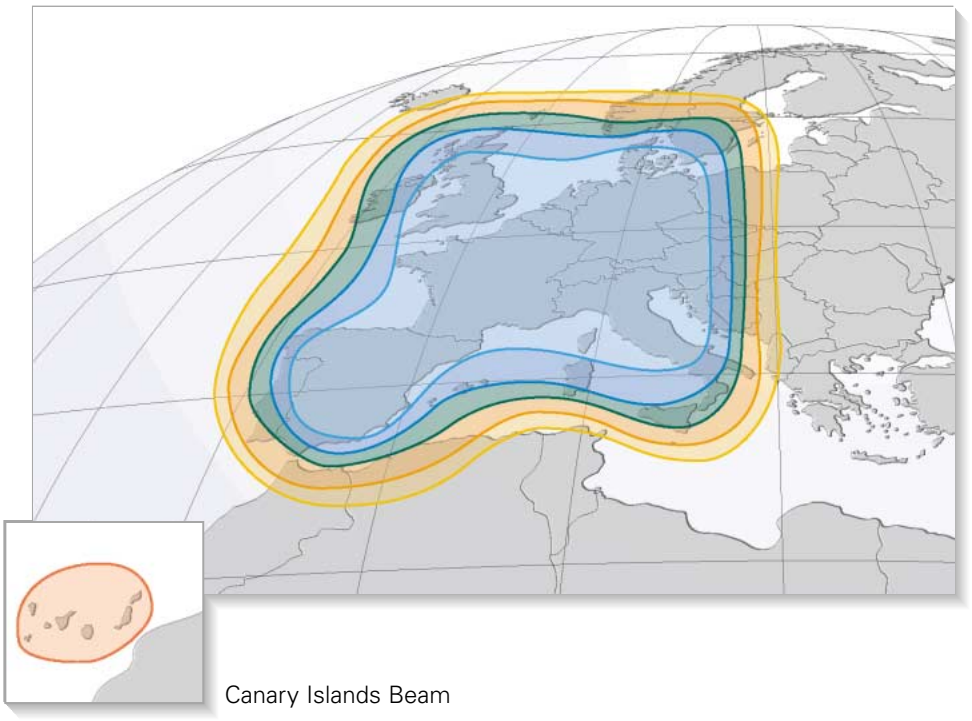
ASTRA 1E BSS FOOTPRINTS

Typical dish sizes: 50 cm | 60 cm | 75 cm | 90 cm | 100 cm | 120 cm

Horizontal Polarization
Mode positive



Vertical Polarization
Mode positive

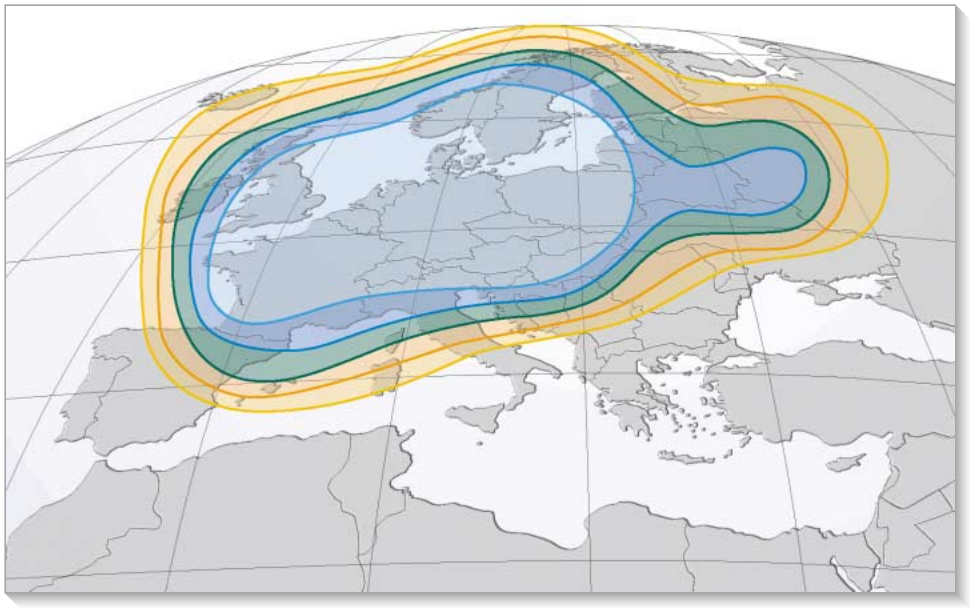


Canary Islands Beam

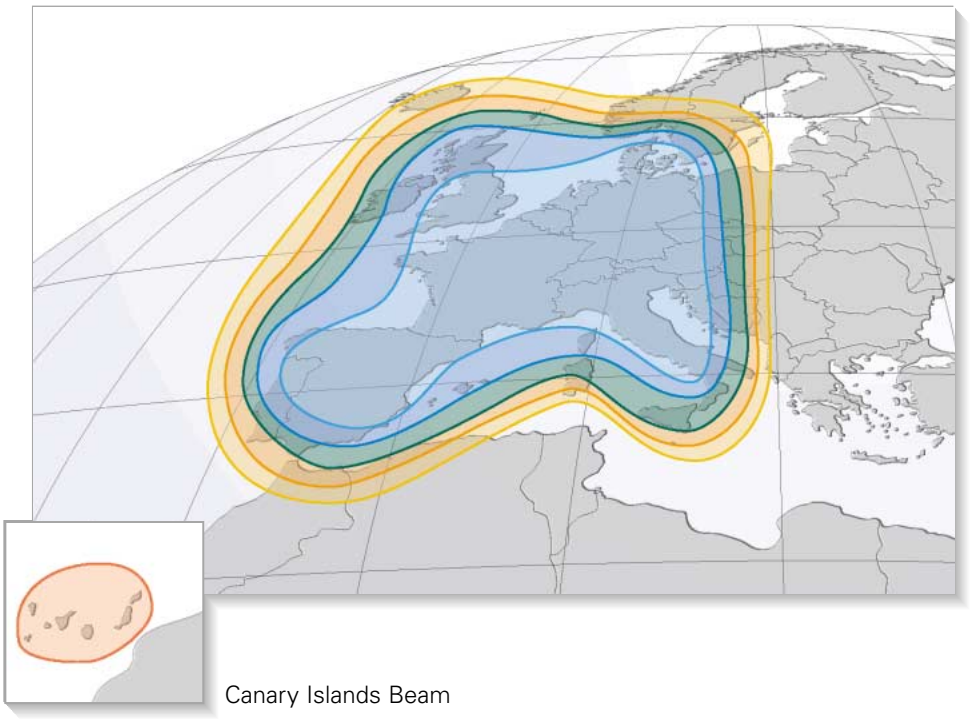
ASTRA 1E BSS FOOTPRINTS

The size of the satellite dish required to receive transmissions from the ASTRA satellites depends on the transponder polarization and the mode (positive or negative) as well as on the geographical location of the dish. The ASTRA 1E satellite uses various antenna modes and two polarizations, resulting in a number of footprints for each satellite.

Horizontal Polarization
Mode negative



Vertical Polarization
Mode negative

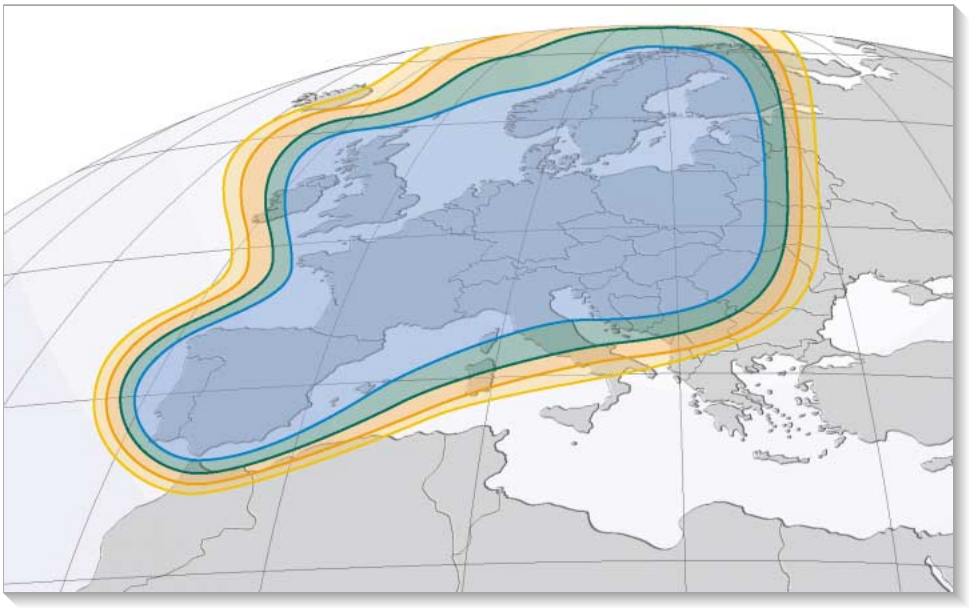


Canary Islands Beam

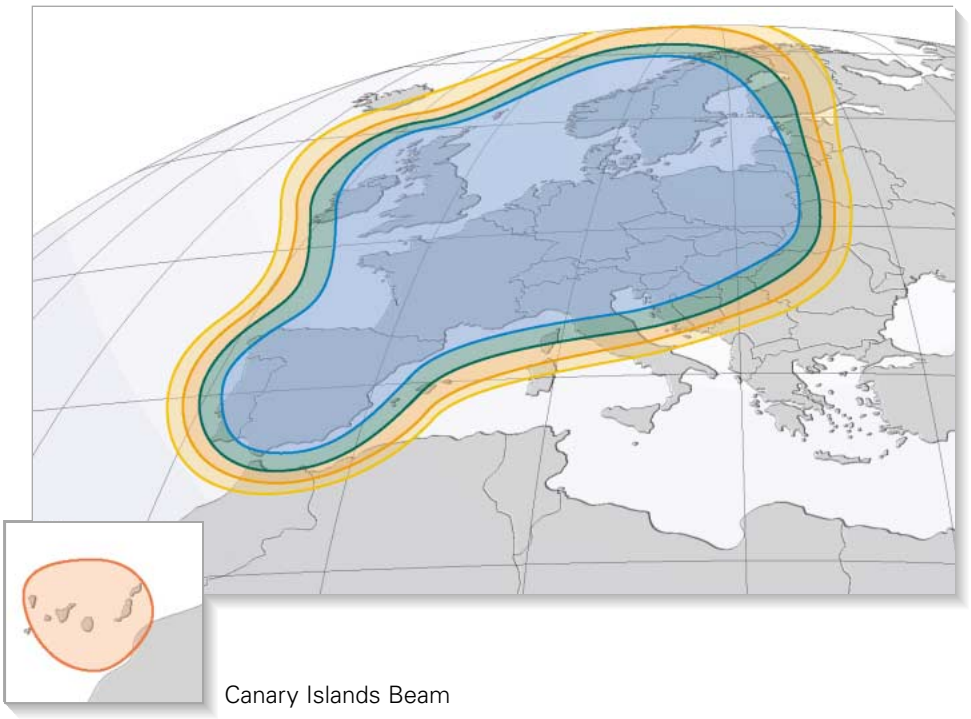
ASTRA 1E FSS FOOTPRINTS

FSS (Fixed Satellite Service): 10.7 - 11.7 GHz and 12.5 - 12.75 GHz, 26 MHz per channel
BSS (Broadcast Satellite Service): 11.7 - 12.5 GHz, 33 MHz per channel

Horizontal Polarization
Mode positive



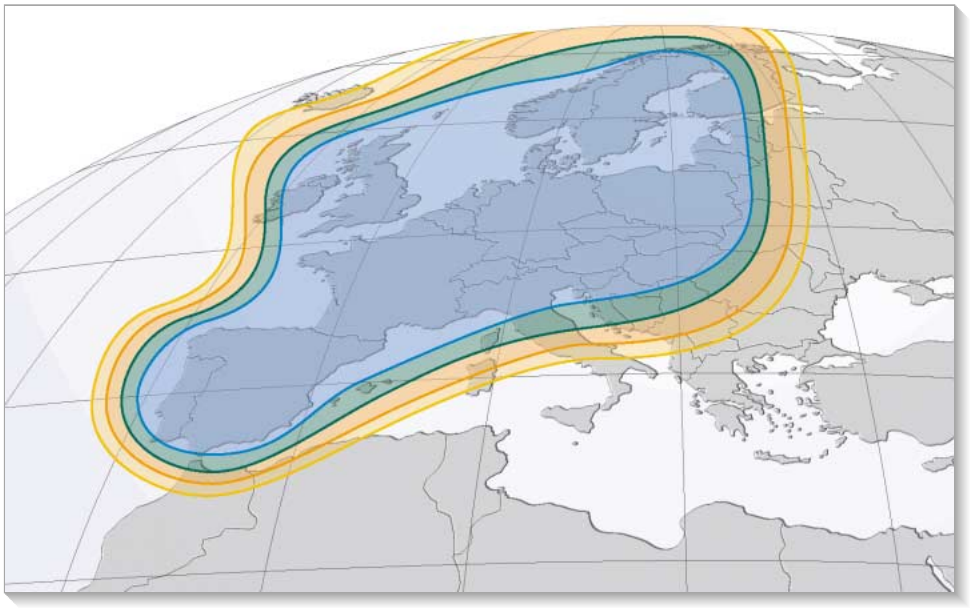
Vertical Polarization
Mode positive



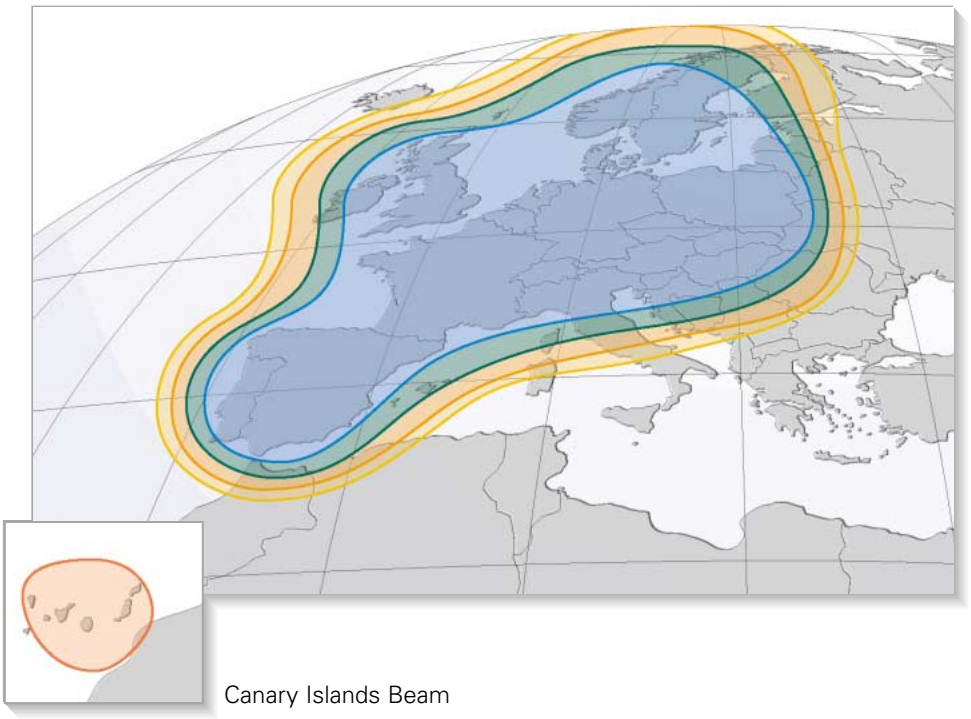
Canary Islands Beam

ASTRA 1E FSS FOOTPRINTS

Horizontal Polarization
Mode negative



Vertical Polarization
Mode negative



Canary Islands Beam

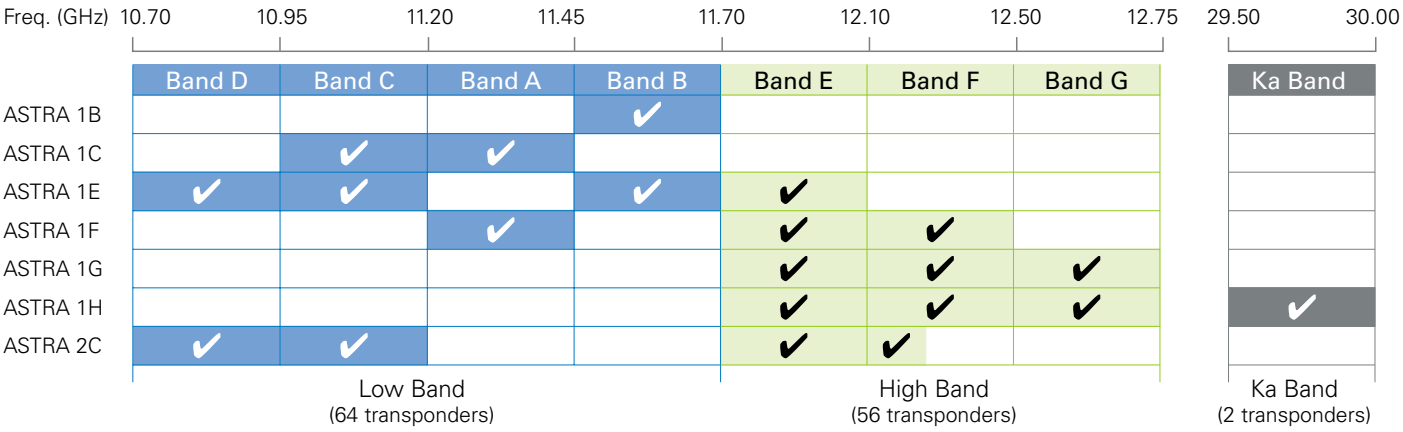
THE ASTRA SATELLITE SYSTEM

ASTRA ORBITAL POSITIONS AND BACK-UP – SAFEGUARDING REVENUE

By co-locating satellites at one orbital position, ASTRA can offer easy ways of expanding service ranges and highest transmission security.

The key advantage is that audiences can use the same direct-to-home reception equipment when broadcasters and broadband service providers extend their services at the same orbital position.

The ASTRA satellite system through its co-located satellites at prime orbital positions also has the strength to provide a unique form of in-orbit back-up. If for any reason, a transponder is switched off, a back-up transponder on the same satellite or a co-located satellite can be immediately activated. The back-up system can therefore guarantee high operational security and continuity of service for both our customers and the end consumer.



Updates of footprints, transponder lists and frequency plans, the complete ASTRA channel line-up and more information about SES ASTRA, the ASTRA Satellite System and ASTRA products and services can be found on www.ses-astra.com or contact us:

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