

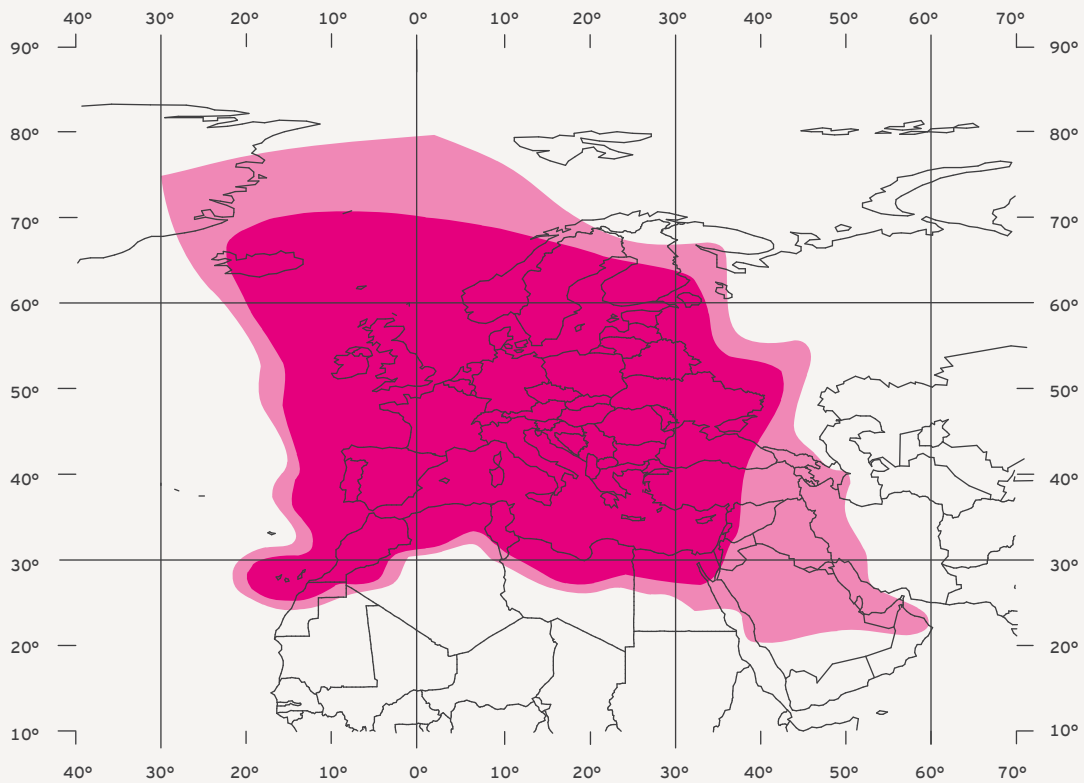
# ASTRA 1M

## TV Program – DW, DW (Arabia)

### Rebroadcasting and Direct-to-Home

**Launch date**  
December 15  
2015

Position	19,2° East
Transponder	28
Frequency	11,627 GHz
Polarization	vertical
FEC	5/6
Symbolrate	22,000 Msymbols/s
Modulation	QPSK /DVB-S
Video Standard	PAL
Video Compression	MPEG-2
Audio Compression	MPEG-1/Layer 2
Encryption	-
Additional Data Services	-
TV Channel	DW, DW (Arabia)
Radio Channel	-



Reception may be possible even beyond these contours

0.8 m	1.2 m	Diameter of satellite receiving antenna in meter (approximate values) for Rebroadcasting
0.6 m	0.8 m	
		Diameter of satellite receiving antenna in meter (approximate values) for Direct-to-Home

**Important technical remark:**

The diameters of the antennas are calculated for perfect weather conditions (clear sky), assuming perfectly aligned high quality antennas. Commonly used wire mesh antennas have a lower efficiency than solid dishes. To secure the reception, it is advisable to generally choose a diameter about 20% larger.