

	Free	General Entertainment	German	12.1875 GHz / H	19.2°E
RTL Télé Lëtzebuerg	-	TV	ASTRA reception area	<u>Trp 108</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	Luxembourgish	12.551 GHz / V	19.2°E
RTL Television	-	TV	ASTRA reception area	<u>Trp 89</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	German	12.1875 GHz / H	19.2°E
RTM Morocco	-	TV	ASTRA reception area	<u>Trp 54</u> (,)	ASTRA-1E
	Free	General Entertainment	Arabic	10.788 GHz / V	19.2°E
RTP Internacional	-	TV	ASTRA reception area	<u>Trp 54</u> (,)	ASTRA-1E
	Free	General Entertainment	Portuguese	10.788 GHz / V	19.2°E
Santé-Vie	CanalSatellite	TV	France	<u>Trp 68</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Health	French	11.778 GHz / V	19.2°E
Santé-Vie Plus	CanalSatellite	TV	France	<u>Trp 68</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Health	French	11.778 GHz / V	19.2°E
Sat.1	-	TV	ASTRA reception area	<u>Trp 104</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	German	12.48 GHz / V	19.2°E
Seasons	CanalSatellite	TV	France	<u>Trp 70</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Documentary	French	11.817 GHz / V	19.2°E
Sky News	-	TV	ASTRA reception area	<u>Trp 108</u> (22000, 5/6)	ASTRA-1G
	Free	News	English	12.551 GHz / V	19.2°E
SR Fernsehen Südwest	-	TV	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	German	11.8365 GHz / H	19.2°E
Super RTL	-	TV	ASTRA reception area	<u>Trp 89</u> (27500, 3/4)	ASTRA-1H
	Free	Children	German	12.1875 GHz / H	19.2°E
TCM France	CanalSatellite	TV	France	<u>Trp 88</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Films	English, French	12.168 GHz / V	19.2°E
The Chinese Channel	-	TV	ASTRA reception area	<u>Trp 88</u> (27500, 3/4)	ASTRA-1G
	Pay TV	General Entertainment	Chinese, English	12.168 GHz / V	19.2°E
TIJI	CanalSatellite	TV	France	<u>Trp 66</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Children	French	11.7395 GHz / V	19.2°E
TM3	-	TV	ASTRA reception area	<u>Trp 104</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	German	12.48 GHz / V	19.2°E

TMC - Tele Monte Carlo	CanalSatellite	TV	France	<u>Trp 68</u> (27500, 3/4)	ASTRA-1G
	Pay TV	General Entertainment	French	11.778 GHz / V	19.2°E
Travel	-	TV	ASTRA reception area	<u>Trp 88</u> (27500, 3/4)	ASTRA-1G
	Free	Travel	English	12.168 GHz / V	19.2°E
TV Breizh	CanalSatellite	TV	France	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Pay TV	General Entertainment	French	12.207 GHz / V	19.2°E
TV Catalunya Internacional	-	TV	ASTRA reception area	<u>Trp 102</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Catalan	12.441 GHz / V	19.2°E
TV Niepokalanow	Wizja TV	TV	ASTRA reception area	<u>Trp 73</u> (27500, 3/4)	ASTRA-1G
	Free	Religious	Polish	11.8755 GHz / H	19.2°E
TV5	-	TV	ASTRA reception area	<u>Trp 54</u> (.)	ASTRA-1E
	Free	General Entertainment	French	10.788 GHz / V	19.2°E
TV5 Europe	-	TV	ASTRA reception area	<u>Trp 112</u> (22000, 5/6)	ASTRA-1H
	Free	General Entertainment	French	12.6105 GHz / V	19.2°E
TV7 Tunisie	-	TV	ASTRA reception area	<u>Trp 54</u> (.)	ASTRA-1E
	Free	General Entertainment	Arabic	10.788 GHz / V	19.2°E
TW1	ORF Digital	TV	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	Weather	German	12.69225 GHz / H	19.2°E
VIA1	Premiere World	TV	ASTRA reception area	<u>Trp 87</u> (27500, 3/4)	ASTRA-1H
	Free	Travel	German	12.1485 GHz / H	19.2°E
Video Italia	-	TV	ASTRA reception area	<u>Trp 112</u> (22000, 5/6)	ASTRA-1H
	Free	Music	Italian	12.6105 GHz / V	19.2°E
Viva	-	TV	ASTRA reception area	<u>Trp 116</u> (22000, 5/6)	ASTRA-1G
	Free	Music	German	12.6695 GHz / V	19.2°E
Viva 2	-	TV	ASTRA reception area	<u>Trp 108</u> (22000, 5/6)	ASTRA-1G
	Free	Music	German	12.551 GHz / V	19.2°E
VOX	-	TV	ASTRA reception area	<u>Trp 89</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	German	12.1875 GHz / H	19.2°E
Voyage	CanalSatellite	TV	France	<u>Trp 68</u> (27500, 3/4)	ASTRA-1G
	Pay TV	Travel	French	11.778 GHz / V	19.2°E
WDR-Fernsehen	-	TV	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G

	Free	General Entertainment	German	11.8365 GHz / H 19.2°E
Wish Line	-	TV	ASTRA reception area	<u>Trp 112</u> (22000, 5/6) ASTRA-1H
	Free	Shopping	French	12.6105 GHz / V 19.2°E
XXL	CanalSatellite	TV	France	<u>Trp 93</u> (27500, 3/4) ASTRA-1H
	Pay TV	Adults	French	12.2655 GHz / H 19.2°E
ZDF	-	TV	ASTRA reception area	<u>Trp 77</u> (27500, 3/4) ASTRA-1G
	Free	General Entertainment	German	11.9535 GHz / H 19.2°E
ZDF INFObox	-	TV	ASTRA reception area	<u>Trp 77</u> (27500, 3/4) ASTRA-1G
	Free	News	German	11.9535 GHz / H 19.2°E
ZDF Theaterkanal	-	TV	ASTRA reception area	<u>Trp 77</u> (27500, 3/4) ASTRA-1G
	Free	Culture	German	11.9535 GHz / H 19.2°E
ZDF.doku	-	TV	ASTRA reception area	<u>Trp 77</u> (27500, 3/4) ASTRA-1G
	Free	Documentary	German	11.9535 GHz / H 19.2°E

Digital Radio Services

* Free conditional reception: Service is encrypted but free of charge. Equipment and smart card required for encoding.

** Reception depends on the ASTRA footprints. Please check if this service is available at your location (corresponding to your dish size) by clicking on the transponder number.

Channel Name	Package	Type	Received in **	Transponder (Bitrate, FEC)	Satellite
	Encryption *	Genre	Language(s)	Freq. / Pol.	Orbital Pos.
Ado FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Rap	French	12.207 GHz / V	19.2°E
Africa N°1	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Traditional	French	12.207 GHz / V	19.2°E
Album Culte	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Oldies	-	12.402 GHz / V	19.2°E
Alouette	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
Andalucía Radio	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E
Antenne Bayern	-	Radio	ASTRA reception area	<u>Trp 87</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	German	12.1485 GHz / H	19.2°E
B 5 Aktuell	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	News	German	11.8365 GHz / H	19.2°E

Bayern 1	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	German	11.8365 GHz / H	19.2°E
Bayern 4 Klassik	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	Classical	German	11.8365 GHz / H	19.2°E
Beur FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Traditional	French	12.207 GHz / V	19.2°E
BFM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Bremen 2	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	Culture	German	11.8365 GHz / H	19.2°E
Cadena Dial	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	Pop & Rock	Spanish	11.934 GHz / V	19.2°E
Cadena SER	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E
Catalunya Informació	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	News	Catalan	11.934 GHz / V	19.2°E
Catalunya Música	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Catalan	11.934 GHz / V	19.2°E
Catalunya Radio	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Catalan	11.934 GHz / V	19.2°E
Chérie FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
Cinesat	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Film Soundtrack	-	12.402 GHz / V	19.2°E
Classic FM	-	Radio	ASTRA reception area	<u>Trp 109</u> (22000, 5/6)	ASTRA-1G
	Free	Classical	Dutch	12.57425 GHz / H	19.2°E
CNN Radio	-	Radio	ASTRA reception area	<u>Trp 88</u> (27500, 3/4)	ASTRA-1G
	Free	News	English	12.168 GHz / V	19.2°E
Contact FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Dance	French	12.207 GHz / V	19.2°E
Cool Jazz	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Jazz	-	12.402 GHz / V	19.2°E
Couleur 3	-	Radio	ASTRA reception area	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Divas	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	General Entertainment	-	12.402 GHz / V	19.2°E

DLF Köln	-	Radio	ASTRA reception area	<u>Trp 77</u> (27500, 3/4)	ASTRA-1G
	Free	News	German	11.9535 GHz / H	19.2°E
DLR Berlin	-	Radio	ASTRA reception area	<u>Trp 77</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	German	11.9535 GHz / H	19.2°E
Electronic	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Special	-	12.402 GHz / V	19.2°E
Europe 1	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
Europe 2	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Europop 'Rock	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Pop & Rock	-	12.402 GHz / V	19.2°E
Explicit	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Soul	-	12.402 GHz / V	19.2°E
FIP	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
FM4	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
France Info	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	News	French	12.207 GHz / V	19.2°E
France Inter	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
France Musique	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Classical	French	12.207 GHz / V	19.2°E
Fritz !	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	Pop & Rock	German	12.1095 GHz / H	19.2°E
Fun Radio	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Hit Radio Antenne - Der Beste Mix	-	Radio	ASTRA reception area	<u>Trp 87</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	German	12.1485 GHz / H	19.2°E
House of DJ's	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Dance	-	12.402 GHz / V	19.2°E
hr - chronos	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	News	German	11.8365 GHz / H	19.2°E
hr 2	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	Culture	German	11.8365 GHz / H	19.2°E
hr 2 Plus - die	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G

Klassikwelle	Free	Classical	German	11.8365 GHz / H	19.2°E
hr XXL	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
Hundert, 6	Free	Pop & Rock	German	11.8365 GHz / H	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 67</u> (27500, 3/4)	ASTRA-1F
Jump FM	Free	Pop & Rock	German	11.7585 GHz / H	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
La Chanson Française	Free	Pop & Rock	German	12.1095 GHz / H	19.2°E
	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
Le Mouv'	Pay Radio	Oldies	-	12.402 GHz / V	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
Le Top	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
Los 40 Principales	Pay Radio	Music	-	12.402 GHz / V	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E
M-80	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E
MDR Info	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	News	German	12.1095 GHz / H	19.2°E
MDR Kultur	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	Culture	German	12.1095 GHz / H	19.2°E
MDR Sputnik	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	Pop & Rock	German	12.1095 GHz / H	19.2°E
Medi 1	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
Média Tropical	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Traditional	French	12.207 GHz / V	19.2°E
Montmartre FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Oldies	French	12.207 GHz / V	19.2°E
NDR 4 Info	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
	Free	News	German	11.8365 GHz / H	19.2°E
Nostalgie	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Oldies	French	12.207 GHz / V	19.2°E
Nouveau Classique	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Classical	-	12.402 GHz / V	19.2°E
NRJ	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Ö1 Radio Österreich	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G

	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö1 Radio Österreich	-	Radio	ASTRA reception area	<u>Trp 77</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	German	11.9535 GHz / H	19.2°E
Ö2 Burgenland	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Kärnten	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Niederösterreich	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Oberösterreich	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Salzburg	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Steiermark	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Tirol	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Vorarlberg	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö2 Wien	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Ö3	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	German	12.69225 GHz / H	19.2°E
Oui FM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Paris Jazz	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Jazz	French	12.207 GHz / V	19.2°E
Planet Sound	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	General Entertainment	-	12.402 GHz / V	19.2°E
Prestige Classique	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Classical	-	12.402 GHz / V	19.2°E
RAC 105	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E
Radio 538	-	Radio	ASTRA reception area	<u>Trp 109</u> (22000, 5/6)	ASTRA-1G
	Free	General	Dutch	12.57425 GHz / H	19.2°E

		Entertainment			
Radio Alfa	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Traditional	French	12.207 GHz / V	19.2°E
Radio Bleue	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Oldies	French	12.207 GHz / V	19.2°E
Radio Classique	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Classical	French	12.207 GHz / V	19.2°E
Radio FG	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Dance	French	12.207 GHz / V	19.2°E
Radio Flash	Wizja TV	Radio	ASTRA reception area	<u>Trp 79</u> (27500, 3/4)	ASTRA-1G
	Pay Radio	General Entertainment	Polish	11.9925 GHz / H	19.2°E
Radio Italia - Solo Musica Italiana	-	Radio	ASTRA reception area	<u>Trp 112</u> (22000, 5/6)	ASTRA-1H
	Free	Traditional	Italian	12.6105 GHz / V	19.2°E
Radio Latina	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Latin	French	12.207 GHz / V	19.2°E
Radio Notre Dame	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Religious	French	12.207 GHz / V	19.2°E
Radio Nova	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
Radio Shalom/RCJ	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Religious	French	12.207 GHz / V	19.2°E
Radio Thollon	-	Radio	ASTRA reception area	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Radio Vlaanderen Internationaal	-	Radio	ASTRA reception area	<u>Trp 97</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	Eng., Fre., Ger., NL	12.3435 GHz / H	19.2°E
Radio WaMa	Wizja TV	Radio	ASTRA reception area	<u>Trp 99</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	Polish	12.3825 GHz / H	19.2°E
Radio WaWa	Wizja TV	Radio	ASTRA reception area	<u>Trp 95</u> (27500, 3/4)	ASTRA-1G
	Pay Radio	General Entertainment	Polish	12.3045 GHz / H	19.2°E
Radio Zet	Wizja TV	Radio	ASTRA reception area	<u>Trp 79</u> (27500, 3/4)	ASTRA-1G
	Pay Radio	General Entertainment	Polish	11.9925 GHz / H	19.2°E
Radio3	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	Classical	German	12.1095 GHz / H	19.2°E
Radiolé	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	General Entertainment	Spanish	11.934 GHz / V	19.2°E

RFI International	-	Radio	ASTRA reception area	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	News	Fre.,Eng.,Spa.	12.207 GHz / V	19.2°E
RFI Musique	-	Radio	ASTRA reception area	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
RFM	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
Rire & Chansons	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
RMC	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
RMF FM	UPC Direct	Radio	ASTRA reception area	<u>Trp 73</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	Polish	11.8755 GHz / H	19.2°E
RNW 1	-	Radio	ASTRA reception area	<u>Trp 109</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	Dutch	12.57425 GHz / H	19.2°E
RNW 2	-	Radio	ASTRA reception area	<u>Trp 109</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	Dutch	12.57425 GHz / H	19.2°E
Rock Antenne	-	Radio	ASTRA reception area	<u>Trp 87</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	German	12.1485 GHz / H	19.2°E
ROI	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	News	German	12.69225 GHz / H	19.2°E
ROI Sackville	ORF Digital	Radio	ASTRA reception area	<u>Trp 117</u> (22000, 5/6)	ASTRA-1G
	Free	News	German	12.69225 GHz / H	19.2°E
RTL	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	General Entertainment	French	12.207 GHz / V	19.2°E
RTL 2	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
RTL Radio	-	Radio	ASTRA reception area	<u>Trp 97</u> (27500, 3/4)	ASTRA-1H
	Free	Oldies	German	12.3435 GHz / H	19.2°E
SFB 4 Multikulti	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
	Free	General Entertainment	German	12.1095 GHz / H	19.2°E
Sinfo Radio	-	Radio	ASTRA reception area (except Poland)	<u>Trp 76</u> (27500, 3/4)	ASTRA-1F
	Free	Classical	Spanish	11.934 GHz / V	19.2°E
Sky Radio	-	Radio	ASTRA reception area	<u>Trp 109</u> (22000, 5/6)	ASTRA-1G
	Free	General Entertainment	Dutch	12.57425 GHz / H	19.2°E
Skyrock	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H

Sport O'FM	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
SR 1	Free	Sports	French	12.207 GHz / V	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 71</u> (27500, 3/4)	ASTRA-1G
SUD Radio	Free	General Entertainment	German	11.8365 GHz / H	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
SWR 2 BW	Free	General Entertainment	French	12.207 GHz / V	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
Talents ou l'actualité musicale	Free	General Entertainment	German	12.1095 GHz / H	19.2°E
	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
Vibration	Pay Radio	Special	-	12.402 GHz / V	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
Voltage	Free	General Entertainment	French	12.207 GHz / V	19.2°E
	-	Radio	ASTRA reception area (except Poland)	<u>Trp 90</u> (27500, 3/4)	ASTRA-1H
WDR 3	Free	Pop & Rock	French	12.207 GHz / V	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
WDR 5	Free	Classical	German	12.1095 GHz / H	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 85</u> (27500, 3/4)	ASTRA-1G
X-Rock	Free	News	German	12.1095 GHz / H	19.2°E
	CanalSatellite	Radio	France	<u>Trp 100</u> (27500, 3/4)	ASTRA-1H
Xtra Music	Pay Radio	Pop & Rock	-	12.402 GHz / V	19.2°E
	-	Radio	ASTRA reception area	<u>Trp 82</u> (27500, 3/4)	ASTRA-1H
	Pay Radio	Music	-	12.051 GHz / V	19.2°E

Analogue TV Services

* Reception depends on the ASTRA footprints. Please check if this service is available at your location (corresponding to your dish size) by clicking on the transponder number.

Channel Name	Encryption	Received in *	Transponder	Satellite
3sat	Genre	Language(s)	Freq. / Pol.	Orbital Pos.
	Free	ASTRA reception area	<u>Trp 10</u>	ASTRA-1F
ARD - Das Erste	Culture	German	11.347 GHz / V	19.2°E
	Free	ASTRA reception area	<u>Trp 19</u>	ASTRA-1B
arte	General Entertainment	German	11.49375 GHz / H	19.2°E
	Free	ASTRA reception area	<u>Trp 48</u>	ASTRA-1E
B1 (Fernsehprogramm des SFB)	Culture	Fre., Ger.	10.71425 GHz / H	19.2°E
	Free	ASTRA reception area	<u>Trp 24</u>	ASTRA-1B
	General		11.56755 GHz /	19.2°E

	Entertainment		V	
Bayerisches Fernsehen	Free	ASTRA reception area	<u>Trp. 45</u>	ASTRA-1C
	General Entertainment	German	11.14125 GHz / H	19.2°E
Bloomberg TV Germany	Free	ASTRA reception area	<u>Trp. 11</u>	ASTRA-1A
	Business	German	11.36175 GHz / H	19.2°E
Bloomberg UK	Free	ASTRA reception area	<u>Trp. 24</u>	ASTRA-1B
	Business	English	11.56755 GHz / V	19.2°E
BR-alpha	Free	ASTRA reception area	<u>Trp. 32</u>	ASTRA-1B
	Education	German	11.686 GHz / V	19.2°E
B.TV Baden Württemberg	Free	ASTRA reception area	<u>Trp. 58</u>	ASTRA-1E
	General Entertainment	German	10.847 GHz / V	19.2°E
CNBC	Free	ASTRA reception area	<u>Trp. 50</u>	ASTRA-1E
	Business	English	10.729 GHz / V	19.2°E
CNN International	Free	ASTRA reception area	<u>Trp. 28</u>	ASTRA-1B
	News	English, Spanish	11.6265 GHz / V	19.2°E
DSF	Free	ASTRA reception area	<u>Trp. 21</u>	ASTRA-1B
	Sports	German	11.52325 GHz / H	19.2°E
Eurosport	Free	ASTRA reception area	<u>Trp. 04</u>	ASTRA-1C
	Sports	Eng., Ger.	11.2585 GHz / V	19.2°E
God Channel	Free	ASTRA reception area	<u>Trp. 57</u>	ASTRA-1E
	Religious	English	10.83225 GHz / H	19.2°E
hessen fernsehen	Free	ASTRA reception area	<u>Trp. 40</u>	ASTRA-1C
	General Entertainment	German	11.0675 GHz / V	19.2°E
Home Order Television	Free	ASTRA reception area	<u>Trp. 62</u>	ASTRA-1E
	Shopping	German	10.906 GHz / V	19.2°E
JSTV	Pay TV	ASTRA reception area	<u>Trp. 53</u>	ASTRA-1E
	General Entertainment	Japanese	10.773 GHz / H	19.2°E
Kabel 1	Free	ASTRA reception area	<u>Trp. 09</u>	ASTRA-1F
	General Entertainment	German	11.33225 GHz / H	19.2°E
KI.KA	Free	ASTRA reception area	<u>Trp. 49</u>	ASTRA-1E
	Children	German	10.71425 GHz / H	19.2°E
MDR Fernsehen	Free	ASTRA reception area	<u>Trp. 43</u>	ASTRA-1C
	General Entertainment	German	11.11175 GHz / H	19.2°E
MTV	Free	ASTRA reception area (except UK & Ireland)	<u>Trp. 27</u>	ASTRA-1B
	Music	German	11.612 GHz / H	19.2°E
MTV 2 - The Pop Channel	Free	ASTRA reception area, UK	<u>Trp. 15</u>	ASTRA-1C
	Music	English	11.42075 GHz / H	19.2°E

n-tv	Free News	ASTRA reception area German	<u>Trp. 29</u> 11.64125 GHz / H	ASTRA-1B 19.2°E
N24	Free News	ASTRA reception area German	<u>Trp. 55</u> 10.80275 GHz / H	ASTRA-1E 19.2°E
N3	Free General Entertainment	ASTRA reception area German	<u>Trp. 25</u> 11.58225 GHz / H	ASTRA-1B 19.2°E
ORB-Fernsehen	Free General Entertainment	ASTRA reception area German	<u>Trp. 30</u> 11.656 GHz / V	ASTRA-1B 19.2°E
Phoenix	Free News	ASTRA reception area German	<u>Trp. 36</u> 11.0085 GHz / V	ASTRA-1C 19.2°E
Pro 7	Free General Entertainment	ASTRA reception area German	<u>Trp. 14</u> 11.406 GHz / V	ASTRA-1F 19.2°E
Quantum TV	Free Shopping	ASTRA reception area Eng., Ger., NL, Spa.	<u>Trp. 13</u> 11.39125 GHz / H	ASTRA-1F 19.2°E
QVC	Free Shopping	ASTRA reception area English	<u>Trp. 38</u> 11.038 GHz / V	ASTRA-1C 19.2°E
QVC Deutschland	Free Shopping	ASTRA reception area German	<u>Trp. 52</u> 10.7585 GHz / V	ASTRA-1E 19.2°E
RTL 2	Free General Entertainment	ASTRA reception area German	<u>Trp. 01</u> 11.214 GHz / H	ASTRA-1F 19.2°E
RTL Shop	Free Shopping	ASTRA reception area German	<u>Trp. 3</u> 11.24375 GHz / H	ASTRA-1A 19.2°E
RTL Television	Free General Entertainment	ASTRA reception area German	<u>Trp. 02</u> 11.229 GHz / V	ASTRA-1F 19.2°E
Sat.1	Free General Entertainment	ASTRA reception area German	<u>Trp. 06</u> 11.288 GHz / V	ASTRA-1F 19.2°E
Sky News	Free News	ASTRA reception area English	<u>Trp. 12</u> 11.3765 GHz / V	ASTRA-1A 19.2°E
Südwest Baden Württemberg	Free General Entertainment	ASTRA reception area German	<u>Trp. 48</u> 11.1855 GHz / V	ASTRA-1C 19.2°E
Südwest Rheinland-Pfalz	Free General Entertainment	ASTRA reception area German	<u>Trp. 61</u> 10.891 GHz / H	ASTRA-1E 19.2°E
Super RTL	Free Children	ASTRA reception area German	<u>Trp. 13</u> 11.39125 GHz / H	ASTRA-1F 19.2°E
TM3	Free General Entertainment	ASTRA reception area German	<u>Trp. 64</u> 10.9355 GHz / V	ASTRA-1E 19.2°E

TV Shop	Free	ASTRA reception area	<u>Trp. 04</u>	ASTRA-1C
	Shopping	English, German, Polish	11.2585 GHz / V	19.2°E
TV Travel Shop	Free	ASTRA reception area	<u>Trp. 56</u>	ASTRA-1E
	Shopping	English	10.8175 GHz / V	19.2°E
TVX - the Fantasy channel	Pay TV	ASTRA reception area	<u>Trp. 57</u>	ASTRA-1E
	Adults	English	10.832 GHz / H	19.2°E
Viva	Free	ASTRA reception area	<u>Trp. 44</u>	ASTRA-1C
	Music	German	11.1265 GHz / V	19.2°E
Viva 2	Free	ASTRA reception area	<u>Trp. 07</u>	ASTRA-1A
	Music	German	11.30275 GHz / H	19.2°E
VOX	Free	ASTRA reception area	<u>Trp. 05</u>	ASTRA-1F
	General Entertainment	German	11.27325 GHz / H	19.2°E
WDR-Fernsehen	Free	ASTRA reception area	<u>Trp. 39</u>	ASTRA-1C
	General Entertainment	German	11.05275 GHz / H	19.2°E
ZDF	Free	ASTRA reception area	<u>Trp. 33</u>	ASTRA-1C
	General Entertainment	German	10.96425 GHz / H	19.2°E

Analogue Radio Services

* Reception depends on the ASTRA footprints. Please check if this service is available at your location (corresponding to your dish size) by clicking on the transponder number.

Channel Name	Encryption	Received in *	Transponder	Satellite
	Genre	Language(s)	Freq. / Pol. Subcarrier	Orbital Position
Antenne 1	Free	ASTRA reception area	<u>Trp. 58</u>	ASTRA-1E
	General Entertainment	German	10.847 GHz / V Subc. 7.38, 7.56	19.2°E
Antenne Bayern	Free	ASTRA reception area	<u>Trp. 9</u>	ASTRA-1F
	General Entertainment	German	11.33225 GHz / H Subc. 7.74, 7.92	19.2°E
Balkan Service	Free	ASTRA reception area	<u>Trp. 31</u>	ASTRA-1B
	Traditional	English	11.67075 GHz / H Subc. 7.56	19.2°E
Bloomberg News Radio	Free	ASTRA reception area	<u>Trp. 31</u>	ASTRA-1B
	News	Eng., Ger., Jap., Port., Spa.	11.67075 GHz / H Subc. 7.38	19.2°E
CNN Radio	Free	ASTRA reception area	<u>Trp. 28</u>	ASTRA-1B
	News	English	11.6265 GHz / V Subc. 7.92	19.2°E
Deutsche Welle	Free	ASTRA reception area	<u>Trp. 2</u>	ASTRA-1F
	News	German	11.229 GHz / V Subc. 7.38, 7.56	19.2°E
Deutsche Welle	Free	ASTRA reception area	<u>Trp. 30</u>	ASTRA-1B
	News	German	11.656 GHz / V Subc. 7.38	19.2°E

Deutsche Welle Euro 1	Free News	ASTRA reception area Various	<u>Trp. 2</u> 11.229 GHz / V Subc. 7.74	ASTRA-1F 19.2°E
Deutsche Welle Euro 2	Free News	ASTRA reception area Various	<u>Trp. 2</u> 11.229 GHz / V Subc. 7.92	ASTRA-1F 19.2°E
DLF Köln	Free News	ASTRA reception area German	<u>Trp. 10</u> 11.347 GHz / V Subc. 7.38, 7.56	ASTRA-1F 19.2°E
DLR Berlin	Free General Entertainment	ASTRA reception area German	<u>Trp. 10</u> 11.347 GHz / V Subc. 7.74, 7.92	ASTRA-1F 19.2°E
Dom Radio	Free Religious	ASTRA reception area German	<u>Trp. 61</u> 10.89125 GHz / H Subc. 7.56	ASTRA-1E 19.2°E
Eins Live	Free Pop & Rock	ASTRA reception area German	<u>Trp. 39</u> 11.05275 GHz / H Subc. 7.74, 7.92	ASTRA-1C 19.2°E
ERF 1	Free Religious	ASTRA reception area Various	<u>Trp. 62</u> 10.906 GHz / V Subc. 7.38	ASTRA-1E 19.2°E
ERF 2	Free Religious	ASTRA reception area Various	<u>Trp. 62</u> 10.906 GHz / V Subc. 7.56	ASTRA-1E 19.2°E
EuroSpar Music	Free General Entertainment	ASTRA reception area German	<u>Trp. 29</u> 11.64125 GHz / H Subc. 7.38, 7.56, 7.74, 7.92	ASTRA-1B 19.2°E
EWTN	Free General Entertainment	ASTRA reception area English	<u>Trp. 16</u> 11.42075 GHz / H Subc. 7.74	ASTRA-1C 19.2°E
Hundert, 6	Free News	ASTRA reception area German	<u>Trp. 21</u> 11.52325 GHz / H Subc. 7.74, 7.92	ASTRA-1B 19.2°E
IBC	Free Traditional	ASTRA reception area Tamil	<u>Trp. 18</u> 11.479 GHz / V Subc. 7.56	ASTRA-1B 19.2°E
Jam FM	Free Pop & Rock	ASTRA reception area German	<u>Trp. 1</u> 11.21425 GHz / H Subc. 7.38, 7.56	ASTRA-1A 19.2°E
Klassik Radio	Free Classical	ASTRA reception area German	<u>Trp. 5</u> 11.27375 GHz / H Subc. 7.74, 7.92	ASTRA-1F 19.2°E
MDR Sputnik	Free Pop & Rock	ASTRA reception area German	<u>Trp. 43</u> 11.11175 GHz / H Subc. 7.38, 7.56	ASTRA-1C 19.2°E
N-Joy Radio	Free Pop & Rock	ASTRA reception area German	<u>Trp. 17</u> 11.46425 GHz / H Subc. 7.38, 7.56	ASTRA-1B 19.2°E
NDR 2	Free Pop & Rock	ASTRA reception area German	<u>Trp. 25</u> 11.58225 GHz / H Subc. 7.38, 7.56	ASTRA-1B 19.2°E

NDR 4 Info	Free	ASTRA reception area	<u>Trp. 25</u>	ASTRA-1B
	News	German	11.58225 GHz / H Subc. 7.74,7.92	19.2°E
Radio Eviva	Free	ASTRA reception area	<u>Trp. 55</u>	ASTRA-1E
	Traditional	German	10.80275 GHz / H Subc. 7.38	19.2°E
Radio Horeb	Free	ASTRA reception area	<u>Trp. 14</u>	ASTRA-1F
	Religious	German	11.406 GHz / V Subc. 7.38	19.2°E
Radio Melodie	Free	ASTRA reception area	<u>Trp. 21</u>	ASTRA-1B
	General Entertainment	German	11.52325 GHz / H Subc. 7.38,7.56	19.2°E
RFI	Free	ASTRA reception area	<u>Trp. 15</u>	ASTRA-1C
	General Entertainment	French	11.42075 GHz / H Subc. 7.56	19.2°E
RTL Radio	Free	ASTRA reception area	<u>Trp. 13</u>	ASTRA-1F
	Oldies	German	11.39125 GHz / H Subc. 7.74,7.92	19.2°E
RTL Radio	Free	ASTRA reception area	<u>Trp. 5</u>	ASTRA-1F
	Oldies	German	11.27375 GHz / H Subc. 7.38,7.56	19.2°E
Student Broadcast Network	Free	ASTRA reception area	<u>Trp. 15</u>	ASTRA-1C
	General Entertainment	English	11.42075 GHz / H Subc. 7.38	19.2°E
Sunshine Live	Free	ASTRA reception area	<u>Trp. 14</u>	ASTRA-1F
	General Entertainment	German	11.406 GHz / V Subc. 7.38	19.2°E
SWR 3	Free	ASTRA reception area	<u>Trp. 19</u>	ASTRA-1B
	Pop & Rock	German	11.49375 GHz / H Subc. 7.38,7.56	19.2°E
Tamil Alai	Free	ASTRA reception area	<u>Trp. 61</u>	ASTRA-1E
	General Entertainment	Tamil	10.89125 GHz / H Subc. 7.74	19.2°E
Tamil Broadcasting Corporation TBC	Free	ASTRA reception area	<u>Trp. 61</u>	ASTRA-1E
	General Entertainment	Tamil	10.89125 GHz / H Subc. 7.92	19.2°E
TBC	Free	ASTRA reception area	<u>Trp. 16</u>	ASTRA-1A
	General Entertainment	Tamil	11.4355 GHz / V Subc. 7.38	19.2°E
Virgin Radio	Free	ASTRA reception area	<u>Trp. 12</u>	ASTRA-1A
	Pop & Rock	English	11.3765 GHz / V Subc. 7.38,7.56	19.2°E
Voice of America	Free	ASTRA reception area	<u>Trp. 31</u>	ASTRA-1B
	News	Various	11.67075 GHz / H Subc. 7.56	19.2°E
WDR 2	Free	ASTRA reception area	<u>Trp. 39</u>	ASTRA-1C
	News	German	11.05275 GHz / H Subc. 7.38,7.56	19.2°E
WDR 5 Europa Radio	Free	ASTRA reception area	<u>Trp. 36</u>	ASTRA-1C
	News	German	11.0085 GHz / V Subc. 7.38,7.56	19.2°E

WRN 3

Free
News

ASTRA reception area
German

Trp. 27

11.6117 GHz / H
Subc. 7.74

ASTRA-1B
19.2°E

WRN Euromax Deutsch

Free
News

ASTRA reception area
German

Trp. 27

11.6117 GHz / H
Subc. 7.38

ASTRA-1B
19.2°E



Exhibit 4
**Letter from Independent engineer contractor for South
Coast Television**

2001 JUL 14 PM 1:33



To Whom It May Concern:

The following is a description of the testing of the MDS International transmission system performed on behalf of South Coast Television in Ireland.

South Coast TV (SCTV) started to broadcast test transmissions carrying Digital program services in July 2000 using a HyperCable MDS transmitter on a carrier frequency of 12.355 GHz.

The transmitter was sharing satellite spectrum used for programs from Astra 1H, Astra 2A (frequency 12.363 GHz), and Eutelsat Hot Bird3 at 13° east :

1- The Astra 2A DBS programs (12.363 GHz), which are sharing the MDS transmitters frequency, are all English language programs and are sold all over Ireland.

The channels on this transport stream are:

18+ Movies 1
18+ Movies 2
Hallmark Entertainment
National Geographic Channel +1
Nickelodeon Replay
Sky Box Office 54
Sky Box Office 55
Sky Box Office 56
Sky Box Office 57
Sky Box Office 58
Sky Business
Star Plus

2- The Astra 1H DBS programs using the frequency 12.363 were available free to air in Ireland and could be received clear and free by Irish DBS viewers.

These programs were:

- TV5 (French), RAI (Italian), DW (English/German speaking news), RTM (morocco), TV7 (Tunisia), Egypt TV.

Subsequent to our testing, The Astra satellite changed its programming line up on 1H and is now not broadcasting these TV programs. They have been replaced by the French Canal Digital Programs, which are not sold in Ireland.

3- Eutelsat DBS programs (12.341 GHz) which are also close and adjacent to the MDS transmitter frequency, are:

Tele+ 18/9, Sky News (clear), Canal D+, Palco info, D+ Mosaico, Palco Technico, Vetrina+ promo (clear)

OVER →

Of the above, only Sky News, which is a free to air English-language channel, is available in Ireland and is widely viewed by a very large audience.

The test transmitter operated over a period of 6 months up to mid January 2001 and no complaints of interference into home satellite receivers were reported. We observed around 200 receive test points and recorded 95 spot measurements at distances from zero (base of the tower) out to 35 km. We never observed any interference to or from the satellite signals during any of these tests.

We also conducted some specific "worst case" tests for interference into Direct To Home (DTH) satellite receivers:

A standard Sky Digital 60cm antenna was aligned on the Astra satellite at 19.2° East on a heading of 147° ETN looking directly through the test transmitter tower. This is the worst-case line. The location was NW 3km from the TX site. Interference from the MDS HyperCable transmitter into the received satellite signals was checked on the spectrum analyser.

No trace of the MDS HyperCable signal could be found on the spectrum analyser and no disturbance to the satellite reception was observed. This test was repeated directly under the transmission tower (35 meters high) and no measurable interference could be measured or observed. We have never had a complaint of interference from anybody receiving any DBS Satellite signals. This was so even though thousands of Sky Digital DBS receivers are working in the vicinity of the test transmitters.



Edward O'Gorman. BSc.
10 May 2001

Exhibit 5
Map of Countries Receiving Free Channels From Astra

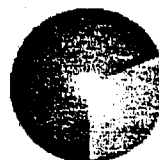
**Coverage Data****MODE OF RECEPTION AND ASTRA COVERAGE 2001**

Click on the map to see country-specific information.

OVERVIEW**SATELLITE
SYSTEM****FOOTPRINTS****RECEPTION
PRINCIPLES****COVERAGE
DATA****Other Countries****Europe**

205.37 mill. TV households

■ Satellite ■ Cable ■ Terrestrial



■ 18.5% (37.93 mill.)

■ 31.0% (63.64 mill.)

■ 50.5% (103.80 mill.)

ASTRA Coverage*: 86.2%

Digital TV Homes: 8.1%

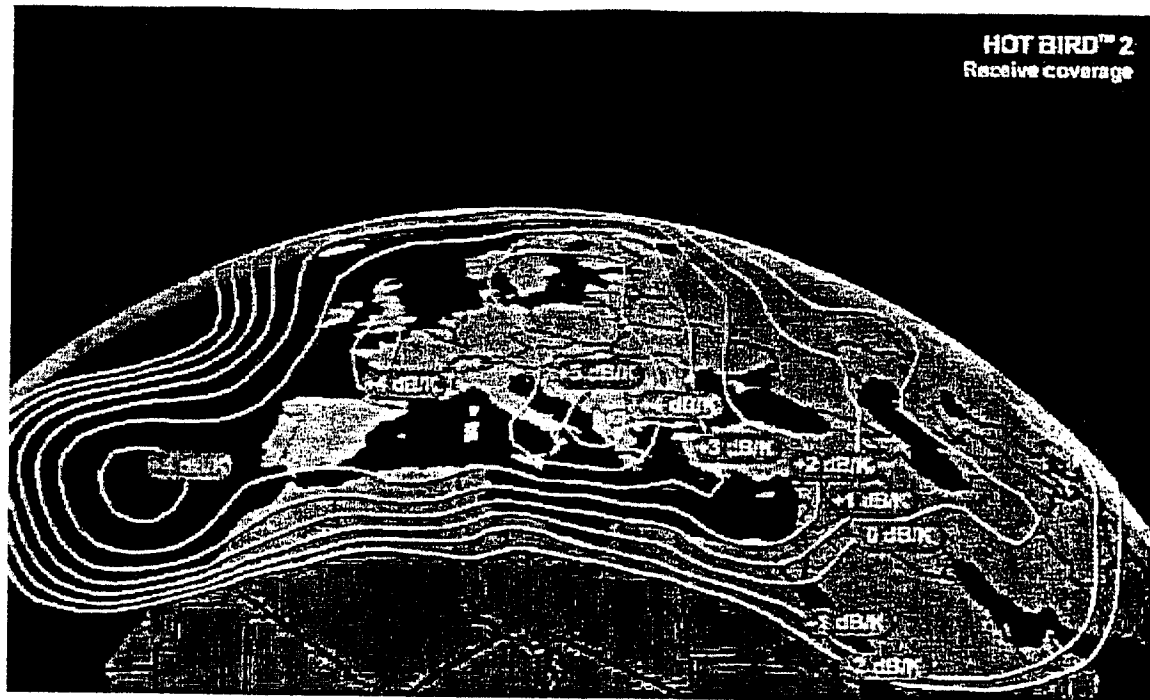
*ASTRA Coverage within Satellite and Cable

Home < The Satellites < Coverage < ASTRA Coverage



Exhibit 6
Hotbird coverage maps and channel listings

Satellite information





SatcoDX Coverage Image

HOT234KW

Sat-city
AUS

mod. "TS1/..." INCREDIBLE, COMPLETE & PRECISE PORTABLE LABORATORY

*TELE-satellite International Magazine Issue 2001/04-05 is out!*

now with Part I of SatcoDX Global Satellite Chart in Print (from 005.0 to 016.0° East
(Sirius 2,3 - Eutelsat W3 - Eutelsat W1 - Hotbird 1,2,3,4,5)

CD-ROM
all transponder
frequencies



Win 95, 98, 2000, NT4
reduced features
with DOS and MAC

+

Magazine



Receiver Test
Reports

= 12.-
US-\$

Order Here

CD and Magazine

Complete SatcoDX Chart (including all
transponder frequencies, not available online) on

CD-ROM

plus International Satellite Trade Magazine

Order Here

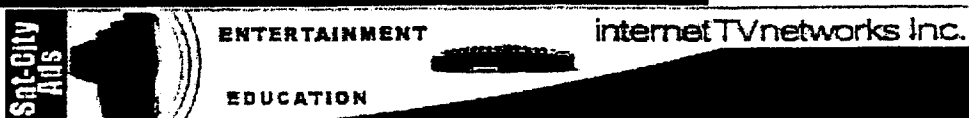
Satellite Receiver Test Reports in this issue of TELE-satellite International Magazine:
NOKIA Mediamaster 9450S, GARNET GSR 3310, TOPFIELD TF 3000CI,
LORENZEN N°15D, MASCOM MC 9600CI, GLOBAL GSR 1110, MEDIACOM
DPCI-GOLD

SatcoDX Coverage Image
Coverage Code HOT234KW





HOT234KS



TELE-satellite International Magazine Issue 2001/04-05 is out!
 now with Part I of SatcoDX Global Satellite Chart in Print (from 005.0 to 016.0° East
 (Sirius 2,3 - Eutelsat W3 - Eutelsat W1 - Hotbird 1,2,3,4,5)

CD-ROM
 all transponder
 frequencies



Win 95, 98, 2000, NT4
 reduced features
 with DOS and MAC

+

Magazine



Receiver Test
 Reports

= 12.-
 US-\$

Order Here

CD and Magazine

Complete SatcoDX Chart (including all
 transponder frequencies, not available online) on

CD-ROM

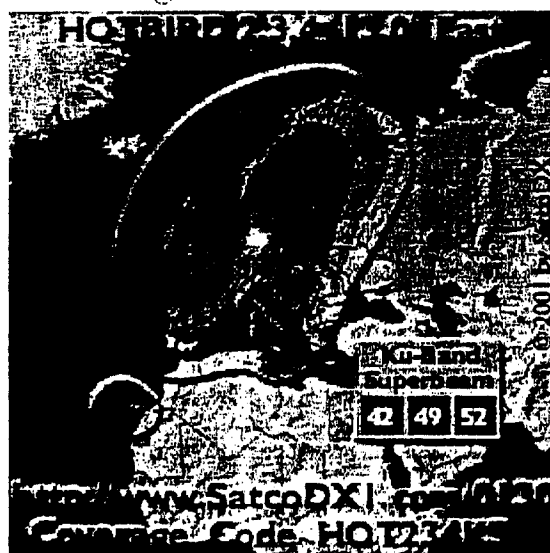
plus International Satellite Trade Magazine

Order Here

Satellite Receiver Test Reports in this issue of TELE-satellite International Magazine:
 NOKIA Mediamaster 9450S, GARNET GSR 3310, TOPFIELD TF 3000CI,
 LORENZEN N°15D, MASCOM MC 9600CI, GLOBAL GSR 1110, MEDIACOM
 DPCI-GOLD

SatcoDX Coverage Image

Coverage Code HOT234KS



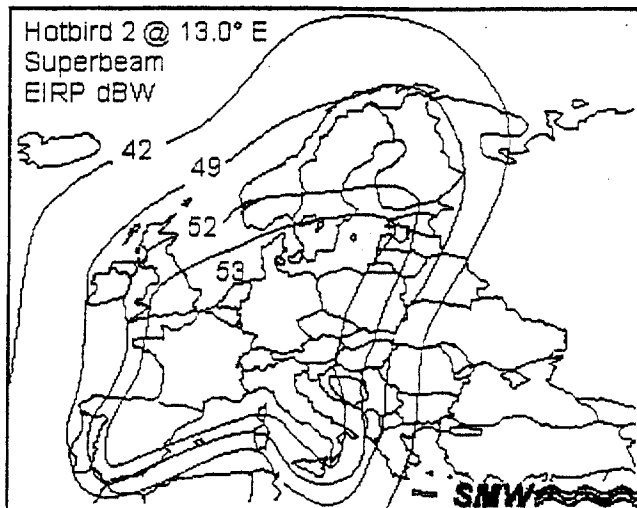


a

s



Hotbird 2

[Home](#)[About Us](#)[New
Products](#)[Products](#)[Free
Software](#)[Footprints](#)[Hotbird 1](#)[Hotbird 2
widebeam](#)[Hotbird 3](#)[Hotbird 4](#)[Hotbird 5](#)[Channels](#)[Contact Us](#)[Next Event](#)

Name	Video	Channel	Frequ	Pol
------	-------	---------	-------	-----

[Go back](#)

Copyright © 1999 by SMW

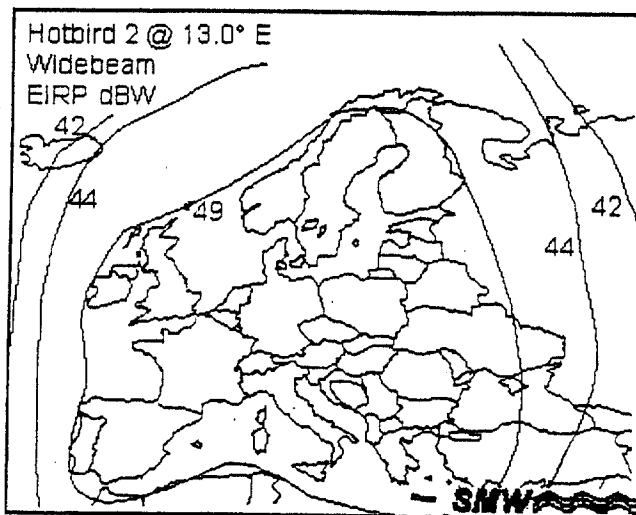


a

s



Hotbird2

[Home](#)
[About Us](#)
[New Products](#)
[Products](#)
[Free Software](#)
[Footprints](#)
[Hotbird 1](#)
[Hotbird 2
superbeam](#)
[Hotbird 3](#)
[Hotbird 4](#)
[Hotbird 5](#)
[Channels](#)
[Contact Us](#)
[Next Event](#)


Name	Video	Channel	Frequ	Pol
RTP Int	PAL	50	11.727	V
Canal 24 Horas	PAL	53	11.785	H

[Go back](#)

Copyright © 2000 by SMW

☐ 20 GB HD
☐ 30 GB HD
☐ 40 GB HD

uBid.com
Where you win at paying less.
[Click here](#)

ADVERTISE ON
www.lyngsat.com
CLICK HERE

Asia
Main | Europe | Europe **DIG** | Europe XXXX | Headlines | Live | Free
Atlantic

26.0°E <C> 1.0°W
SatTracker | MM 9800
16.0°E <Ku> 10.0°E

[Hot Bird 1-5](#) | [Hot Bird 1](#) | [Hot Bird 2](#) | [Hot Bird 3](#) | [Hot Bird 4](#) | [Hot Bird 5](#)

Lyngemark Satellite Chart

Hot Bird 2 at 13.0°E

Hot Bird 2 © Lyngemark Satellite, last updated 2001-05-16 - http://www.lyngsat.com/hb2.shtml										
Freq. Tp		Provider Name Channel Name		Video Encryption	SR - FEC SID - VPID	NID - TID Audio	Beam	S	U	
11727 V tp 50		RTP Internacional	A T	PAL		6.60 P				
		RDP Internacional	A			7.02 P	wide			R O
		RDP Antena 1	A			7.20 P				
		RDP África	A			7.56 P				
		EuroSport				8.46 P				
11747 H tp 51		Dubai mux		MPEG-2	27500 - 3/4	318-5100				
		Dubai EDTV	A T		9501 4130	4131 A	wide			S O
		Dubai Sports Channel	A		9502 4386	4387 E 4388 A				
		Dubai Business Channel	A		9503 4642	4643 A				
		Dubai EDTV	A		9504 4898	4899 A				
		UAE Radio Dubai			9523	4098 A				
		UAE Radio Dubai			9524	4099 A				
11766 V tp 52		RAI		MPEG-2	27500 - 2/3	318-5200				
		RAI Uno	A T		3401 160	80 I	wide			D O
		RAI Due	A T		3402 161	84 I				
		RAI Tre	A T		3403 162	88 I				
		RAI Med			3404 515	653 I				
		Canale Lavoro promo			3405 516	654 I				
		RAI Mosaico	A		3407 518	656 I				
11785 H tp 53		Canal 24 Horas	A T	PAL		6.60 Sp				
		RNE Radio 1	A			7.02 Sp	wide			D O
		RNE Radio 5 Todo Noticias	A			7.20 Sp				
		RNE Radio Clásica	A			7.38:7.56 Sp				
		RNE Radio 3	A			7.74:7.92 Sp				
		RAI		MPEG-2	27500 - 2/3	318-5400				

11804 V tp 54		RAI News 24	A		3301	516	654 I		
		Camera dei Deputati	A		3302	517	655 I		
		TelePace	A		3304	515	653 I		
		RAI Sport Satellite	A		3305	512	650 I		
		RAI Nettuno Sat Due	A		3306	513	651 I		
		RAI Educational	A		3307	514	652 I		
		RAI Nettuno Sat Uno	A		3308	519	657 I		
		Sat 2000	A		3309	518	656 I		
		RAI Radio 1	A		3311		670 I		
		RAI Radio 2	A		3312		671 I	wide	
		RAI Radio 3	A		3313		672 I		
		FD Leggera	A		3314		673 I		
		FD Auditorium	A		3315		665 I		
		Blu Sat 2000			3316		677 I		
		GR Parlamento	A		3317		664 I		
		Isoradio	A		3318		661 I		
		FD Leggera (06-24)	A		3319		667 I		
		Nottuno Italiano (00-06)	A		3319		667 I		
11823 H tp 55		Nova	A	DIG	MPEG-2 Irdeto	27500 - 3/4	318-5500	wide	
11843 V tp 56		Stream	A	DIG	MPEG-2 Irdeto Videoguard	27500 - 3/4	64511-5600	super	
11862 H tp 57		D+	A	DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-5700	super	
11881 V tp 58		Stream	A	DIG	MPEG-2 Irdeto Videoguard	27500 - 3/4	64511-5800	super	
11900 H tp 59		D+	A	DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-5900	super	
11919 V tp 60		Mediaset	A		MPEG-2	27500 - 2/3	272-6000		
		Italia 1	A	T		1	512	650 I	
		Canale 5	A	T		2	513	660 I	wide
		Rete 4	A	T		3	514	670 I	
		(feeds)			Mediaguard	4	515	680 I	
		Radio Mater				11		681 I	
11938 H tp 61		NTV International (Russia)	A		MPEG-2 Viaccess	27500 - 3/4	318-61		
		NTV International (Russia)	A		Viaccess	7101	160	80 R	
		NTV Plus Nashe Kino (-2h)	A		Viaccess	7102	161	82 R	
		NTV Plus Detskij Mir (-2h)	A		Viaccess	7103	162	84 R	
		EuroSport Russia	A		Viaccess	7104	163	86 R	
		NTV USA (-2h)	A		Viaccess	7105	164	88 R	
		NTV Plus	A		Viaccess	7106	165	90 R	
11958 V tp 62		D+	A	DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-6200	super	

11977 H tp 63		Stream	A DIG	MPEG-2 Irdeto Videoguard	27500 - 3/4	64511-6300	super	0
11996 V tp 64	D+	D+	A DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-6400	super	0
12015 H tp 65		Arabesque		MPEG-2 Viaccess	27500 - 3/4	318-6500		
		ART Global Middle East	A	Viaccess	410	160	80 A	
		ART Teenz (06-20)	A	Viaccess	420	161	84 A	
		ART Al-Tarab (20-06)	A	Viaccess	420	161	84 A	
		ART Movies	A	Viaccess	430	162	88 A	
		ART Music	A	Viaccess	440	163	92 A	
		ART Global Europe	A		450	164	96 A	
		LBC Europe	A	Viaccess	460	165	100 A	wide
		ESC 2	A		470	166	104 A	
		ART Sport	A	Viaccess	472	167	108 A	
		Iqraa TV	A		474	168	112 A	
		TV d'Algérie	A	Viaccess	476	169	116 A	
		Ⓢ General Arabic 1			410		81 A	
		Ⓢ General Arabic 2			430		89 A	
		Ⓢ Al-Qur'aan Al-Kareem			450		97 A	
		Ⓢ ART Al-Thekr			474		113 A	
12034 V tp 66	D+	D+	A DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-6600	super	0
12054 H tp 67	D+	D+	A DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-6700	super	N S 0
12073 V tp 68	D+	D+	A DIG	MPEG-2 Mediaguard	27500 - 3/4	16384-6800	super	C 0
12092 H tp 69	Tropica	TSA	A	MPEG-2	27500 - 3/4	318-6900		
		TV Locale			8704	4160	4161 Sp	
		RCT - Rainbow Channel TV	A	Viaccess	8706	4520	4521	
		TVE Internacional Europe	A		8707	4208	4209 Sp	
		La Cadena del Milagro Internacional	A		8711	4368	4369 Sp	
		Visions Europe (20-22)			8719	4416	4417 E 4418 Sp 4419 F 4420 I 4421 Gr 4422 G	wide
		Canal Fiesta	A		8720	4432	4433 Sp	
		SCT - Satisfaction Channel TV	A	Viaccess	8727	4192	4193 I	
		Italia Sat			8728	4600	4601 I	
		UBN			8729	4612	4611-A	
		Sex View	A	Viaccess Irdeto	8731	4630	4631 G	
		Ⓢ Musica y Noticias	A	Viaccess	8713		4401	
		Ⓢ Musica Ambiental	A	Viaccess	8714		4402	

Ⓢ Música Moderna	A	Viaccess	8715	4403
Ⓢ Música Clásica	A	Viaccess	8716	4404
Ⓢ Música en Español	A	Viaccess	8717	4405
Ⓢ Música Melódica	A	Viaccess	8718	4406
Ⓢ Cadena Energia			8725	4500 Sp
Hot Bird 2 © Lyngemark Satellite, last updated 2001-05-16 - http://www.lyngsat.com/hb2.shtml				

Colour codes on this satellite chart: analog, clear analog, encrypted B/D/D2-MAC digital, clear digital, encrypted interactive feeds

TV	clear	enc.
analog	2	0
digital	42	85

You are welcome to send updates and corrections to webmaster@lyngsat.com
The logotypes are provided by [SatLogo](#) ©



I became a Fool - I got out of debt

ADVERTISE ON
www.lyngsat.com
CLICK HERE

The content on this website is protected by copyright. All rights reserved.
© Lyngemark Satellite - hosted by [GlobeCom](#)



1
0° - 18.9°

**Satellite News
Help & Glossary
Contact SatcoDX
Change Satellite
Auto Program**

SatcoDX Satellite Chart

Hotbird 1, 2, 3, 4, 5 (013.0)

Fast Chart
All Channels

Print Chart
All Information

DishTrak (tm)
Where to Find Satellite

Receiver File
Load into Receiver
SDX Format



The complete Global Satellite Chart from SatcoDX in print
Order Here
200+ pages, all transponder data and footprints, Printed on
Demand



SatcoDX Chart for professionals: 250.- US\$



TELE-satellite International Magazine Issue 2001/06-07 is out!

now with Part 2 of SatcoDX Global Satellite Chart in Print - 019.0° - 026.0° East
(ASTRA 1A,1B,1C,1E,1F,1G,1H - Eutelsat 2F3 - Kopernikus 3 - Arabsat 2A,3A)

CD-ROM

all transponder
frequencies



Win 95, 98, 2000, NT4
reduced features
with DOS and MAC

+

Magazine



Receiver Test
Reports

= 12.-
US-\$

Order Here

CD and Magazine

Complete SatcoDX Chart (including all
transponder frequencies, not available online) on
CD-ROM

plus International Satellite Trade Magazine
Order Here

Satellite Receiver Test Reports in this issue of TELE-satellite International Magazine:
RADIX DT-30S CI +++ LORENZEN SL N° 18D CI +++ AZTECH AZ-777 +++ DY
Telecom DTS-3070 ADCIP +++ MediaCom VACI-gold +++ GLOBAL GSR-3000 CI
+++ GRUNDIG Selexx

Copyright (c) 2001 by SatcoDX - For Private and Personal Use Only

Please, wait while chart is loading

Type Ch # Frequency GHz Pol	Channel	Coverage	Mode Crypt Audio/TT	SR FEC V- PID A- PID	PCR 4DTV SID TID NID	Main Language	First Contributor Confirmative Contribution
TV-DIG 110			MPG2	27500 3/4	163 4404	POL	

10.719 V	 TV Polonia	 HOT234KW	8191	163 92	11000 318		
TV-DIG 111 10.723 H	 EWTN - Eternal Word TV Network	 HOT234KW	MPG2	29900 3/4 1001 1201	1001 4601 11100 318	ENG	
TV-DIG 111 10.723 H	Newslynx feed	 HOT234KW	MPG2 8191	29900 3/4 1002 1202	1002 4602 11100 318	ARA	
TV-DIG 111 10.723 H	 MTA International	 HOT234KW	MPG2 1104	29900 3/4 1004 1204	1004 4604 11100 318	ENG	
R-DIG 112 10.758 V	Guide LC	 HOT234KS	MPG2 8191	27500 3/4 8030	8030 11200 176	FRA	
R-DIG 113 10.775 H	The Touch	 HOT234KW	MPG2	28000 3/4 1322	1322 16 0 1		010125 Webmaster
R-DIG 114 10.796 V	France Musique	 HOT234KW	MPG2 8191	27500 2/3 830	830 1418 11400 176	FRA	
R-DIG 114 10.796 V	Hector	 HOT234KW	MPG2 8191	27500 2/3 831	831 1419 11400 176	FRA	
R-DIG 114 10.796 V	FIP	 HOT234KW	MPG2 8191	27500 2/3 832	832 1420 11400 176	FRA	
R-DIG 114 10.796 V	France Inter	 HOT234KW	MPG2 8191	27500 2/3 833	833 1421 11400 176	FRA	
R-DIG 114 10.796 V	France Info	 HOT234KW	MPG2 8191	27500 2/3 834	834 1422 11400 176	FRA	

R-DIG 114 10.796 V	France Culture	 HOT234KW	MPG2 8191	27500 2/3 836	836 1424 11400 176	FRA	
R-DIG 114 10.796 V	Radio Bleu	 HOT234KW	MPG2 8191	27500 2/3 837	837 1425 11400 176	FRA	
R-DIG 114 10.796 V	Le Mouv	 HOT234KW	MPG2 8191	27500 2/3 838	838 1426 11400 176	FRA	
TV-ANA 115 10.815 H	Duna TV	 HOT234KW	PAL_ 7.02&7.20			MAG	010126 Nenad Vorgucin
R-ANA 115 10.815 H	Kossuth Radio AM	 HOT234KW	PAL_ 7.38			MAG	010126 Nenad Vorgucin
R-ANA 115 10.815 H	Radio Budapest	 HOT234KW	PAL_ 7.56			MAG	010126 Nenad Vorgucin
R-ANA 115 10.815 H	Petofi Radio	 HOT234KW	PAL_ 7.74			MAG	010126 Nenad Vorgucin
R-ANA 115 10.815 H	Magyar Radio Regionalis es Nemzetisegi Adasok	 HOT234KW	PAL_ 7.92			MAG	010126 Nenad Vorgucin
TV-DIG 116 10.834 V	 Credit Agricole	 HOT234KS	MPG2 8191	27500 2/3 5321 5333	5321 5301 11600 176	FRA	010205 Wojtek Mazur
TV-ANA 117 10.853 H	Medya TV	 HOT234KW	PAL_ 6.60			KUR	
R-ANA 117 10.853	Radio Sweden		WEGE			SVE	

H		HOT234KW	7.38				
R-ANA 117 10.853 H	WRN Israel	 HOT234KW	WEGE 7.74			FAR	
R-DIG 118 10.873 V	Europa 1	 HOT234KS	MPG2 8191	27500 3/4 830	830 1530 11800 176	FRA	
R-DIG 118 10.873 V	Europa 2	 HOT234KS	MPG2 8191	27500 3/4 831	831 1531 11800 176	FRA	
R-DIG 118 10.873 V	RFM	 HOT234KS	MPG2 8191	27500 3/4 832	832 1532 11800 176	FRA	
R-DIG 118 10.873 V	RTL	 HOT234KS	MPG2 8191	27500 3/4 834	834 1534 11800 176	FRA	
R-DIG 118 10.873 V	NRJ	 HOT234KS	MPG2 8191	27500 3/4 835	835 1535 11800 176	FRA	
R-DIG 118 10.873 V	Radio Classique	 HOT234KS	MPG2 8191	27500 3/4 836	836 1536 11800 176	FRA	
R-DIG 118 10.873 V	Cherie FM	 HOT234KS	MPG2 8191	27500 3/4 837	837 1537 11800 176	FRA	
R-DIG 118 10.873 V	Radio W Une	 HOT234KS	MPG2 8191	27500 3/4 841	841 1541 11800 176	FRA	010219 Webmaster
R-DIG 119 10.892 H	Polskie Radio Bis	 HOT234KW	MPG2	27500 3/4 115	120 4840 11900 318	POL	
R-DIG 119 10.892	Polskie Radio 2		MPG2	27500 3/4	120 4840 11900	POL	

H		HOT234KW		117	318		
R-DIG 119 10.892 H	Polskie Radio 3	 HOT234KW	MPG2	27500 3/4 118	120 4840 11900 318	POL	
R-DIG 119 10.892 H	RFM FM	 HOT234KW	MPG2	27500 3/4 119	120 4840 11900 318	POL	
R-DIG 119 10.892 H	Jazz Radio	 HOT234KW	MPG2	27500 3/4 120	120 4840 11900 318	POL	
R-DIG 119 10.892 H	Tok FM	 HOT234KW	MPG2	27500 3/4 121	120 4840 11900 318	POL	
R-DIG 119 10.892 H	Radiostacja	 HOT234KW	MPG2	27500 3/4 122	120 4840 11900 318	POL	001226 Irek Rybczyński
TV-DIG 120 10.911 V	Multivision Acctueil	 HOT234KS	MPG2 8191	27500 3/4 320 330	320 1603 12000 176	FRA	
R-DIG 120 10.911 V	Rire et chansons	 HOT234KS	MPG2 8191	27500 3/4 930	930 1630 12000 176	FRA	
R-DIG 120 10.911 V	Mosqueteiros	 HOT234KS	MPG2 8191	27500 3/4 932	932 1632 12000 176	POR	
R-DIG 120 10.911 V	Nostalgie	 HOT234KS	MPG2 8191	27500 3/4 938	938 1638 12000 176	FRA	
R-DIG 120 10.911 V	Radio Coutoise	 HOT234KS	MPG2 8191	27500 3/4 940	940 1640 12000 176	FRA	
R-DIG 120 10.911	La Voix des Pays	 HOT234KS	MPG2 8191	27500 3/4	941 1641 12000	FRA	