

**PARAMETERS THAT NEED TO BE SUBMITTED BY ESV NETWORK OPERATORS
FOR COMPLIANCE TO THE ECC. DEC. (05)10 ON FREE CIRCULATION AND USE
OF 14 GHZ ESV EQUIPMENT**

Following are the required information on the Connexion by BoeingSM (CBB) ESV satellite system, required for compliance to the ECC Dec. (05)10 on 14 GHz ESV equipment. With this submission CBB states its compliance to the ECC Decision (05)10 on free circulation and use of 14 GHz ESV equipment.

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Network operator details

1. Technical Specification(s) of ESV type(s) used in the network

ESV Antenna

Antenna type	Symmetric Parabolic Reflector
Antenna size	Diameter 1.0 metre
Transmit frequency bands	14.0-14.5 GHz
Transmit peak gain	41.5 dBi
Max e.i.r.p. per carrier	48.2 dBW
Typical Bandwidth	13.5 MHz
Min. operating elevation	5°
Pointing accuracy	No more than 0.2 degrees, 1 sigma, including the 0.1 degree conical scan offset, when vessel motion is taken into account.

Waveform definition

Number(s) of carriers per ESV	One
Maximum occupied bandwidth(s) per carrier	Between 6.0 to 32.4 MHz, depending on the satellite, Typical bandwidth 13.5 MHz.
Modulation	O-QPSK , Direct Spread Spectrum Sequence (DSSS)
Multiple access scheme	CDMA

2. Operating details of each satellite

	SESAT 36 E	I-907	Estrela do Sol	Yamal	ASIASAT	IA-6	AMC-6
ITU BR filing satellite network name	Eutelsat SESAT 36E	Intelsat 9 332.5E	B-SAT 1	Express-7	ASIASAT- CK, CK1, CKX	USASAT- 24S	USASAT- 8B/35W
ITU BR Circular reference number and date of publication	2250 AR11/C/ 2579	AR11/C/ 3401/ 2422	102500356	IFIC2479	AR11/C/ 713, 781, 1336	AR11/C/30 73/2335	AR11/C/221 - AR11/C/ 3616
Satellite Operator Name	Eutelsat	Intelsat	Loral Skynet	Intersputnik	AsiaSat	Intelsat	SES Americom
GSO longitude	36 East	27.5 West	63.05 West	90 East	105.5 East	93.0 West	72.0 Weast
Satellite service area	Europe, North Atlantic, Middle- East (Figure 1)	North Atlantic, Western Europe (Figure 2)	AOR, Western Europe (Figure 3)	Russia (Figure 4)	Asia, Middle East, East Europe (Figure 5)	NA (covering French Territories) (Figure 6)	SA, AOR (Covering French and Portuguese Territories) (Figure 7)

Forward Channel details (Satellite to ESV)

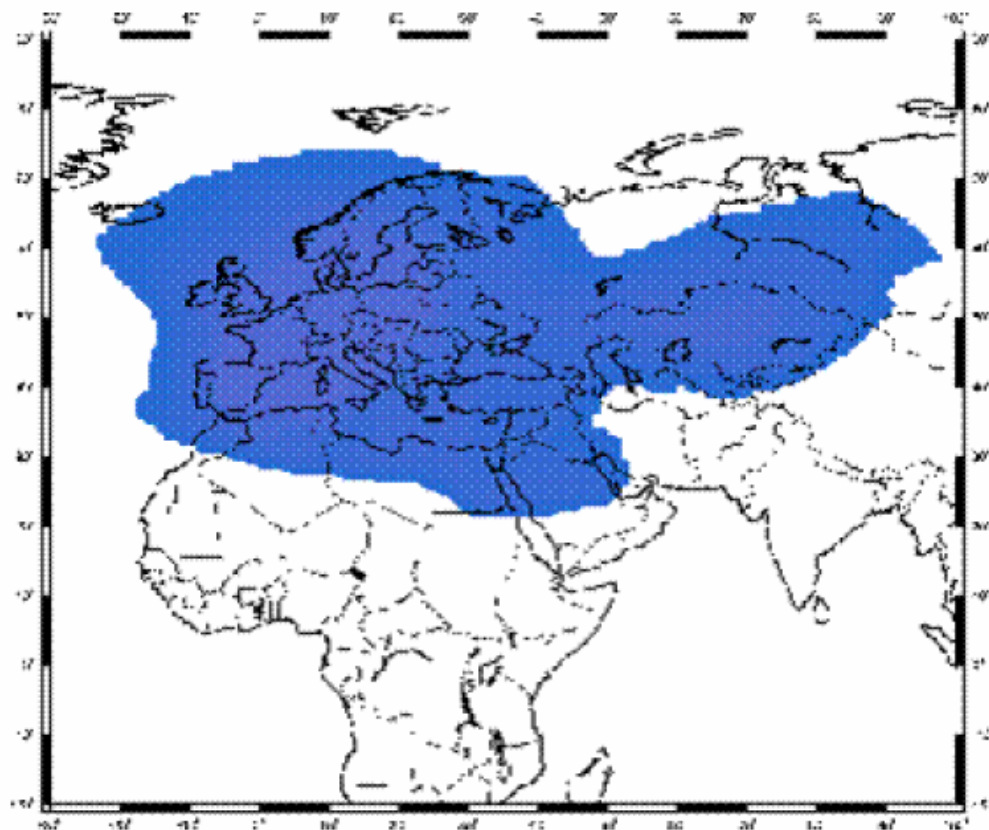
	SESAT 36 E	I-907	Estrela do Sol	Yamal	Asiasat	IA-6	AMC-6
Transponder center frequency (MHz)	11575	11555	11636	11500	12300	11991	11575
Transponder bandwidth (MHz)	72	36	36	72	54	27	32

Return Channel details (ESV to satellite)

	SESAT 36 E	I-907	Estrela do Sol	Yamal	Asiasat	IA-6	AMC-6
Transponder center frequency (MHz)	14105.58	14047	14104	14055	14153	14297.5	14318
Transponder bandwidth (MHz)	72	77	36	72	54	27	36

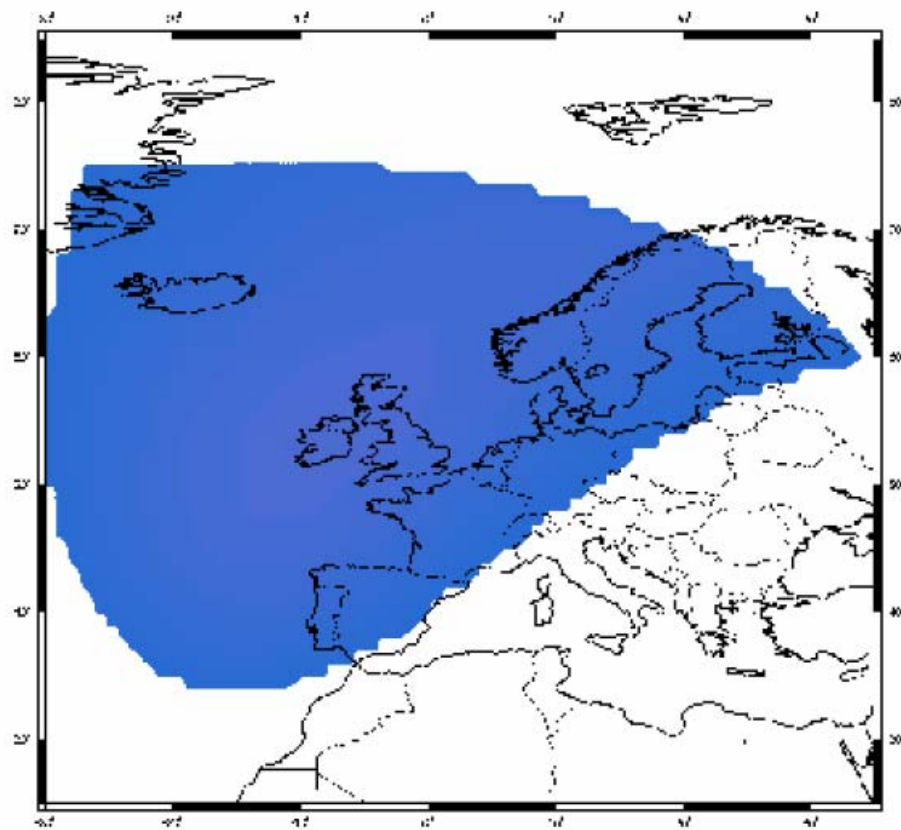
The following ESV satellite network coverages applies for CEPT (including French Oversea Territories and Azores for Portugal):

Fig. 1



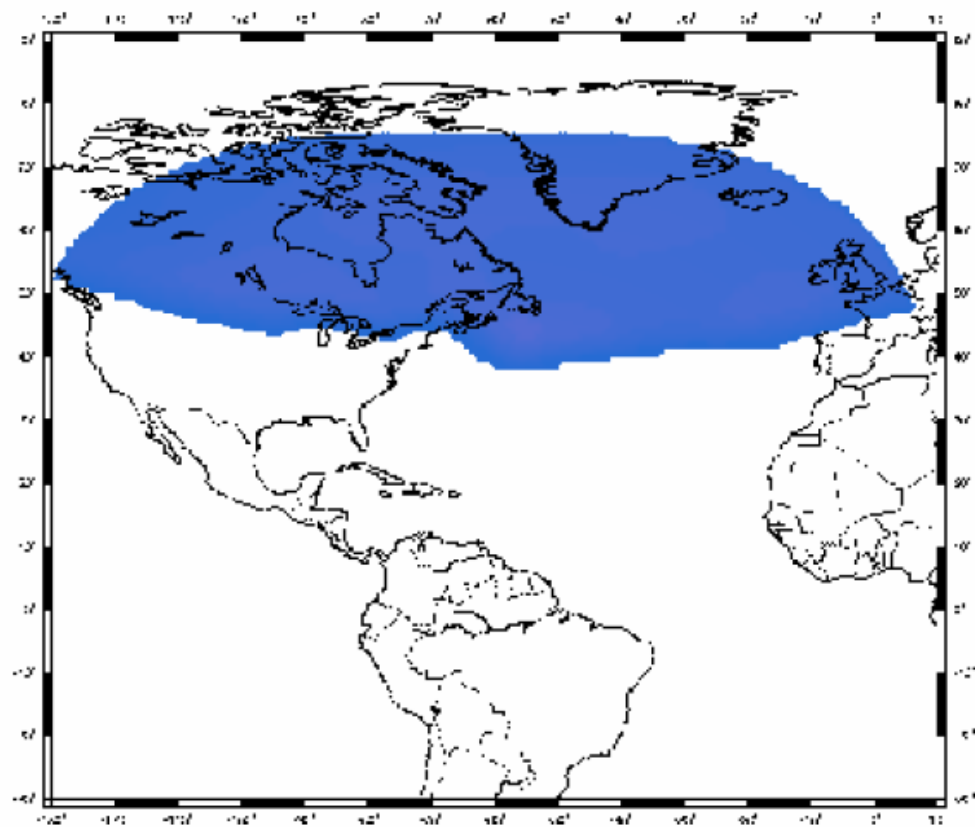
Eutelsat SESAT @ 36° East, Airline Service Footprint

Fig. 2



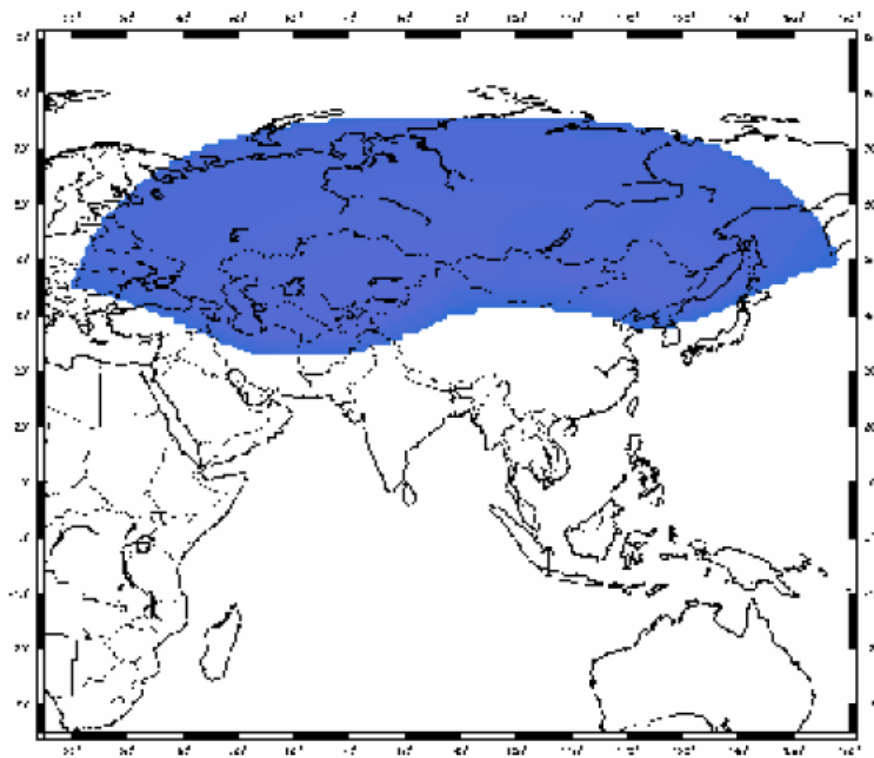
Intelsat 907 @ 27.5° West, NeAOR CbB Service Footprint

Fig. 3



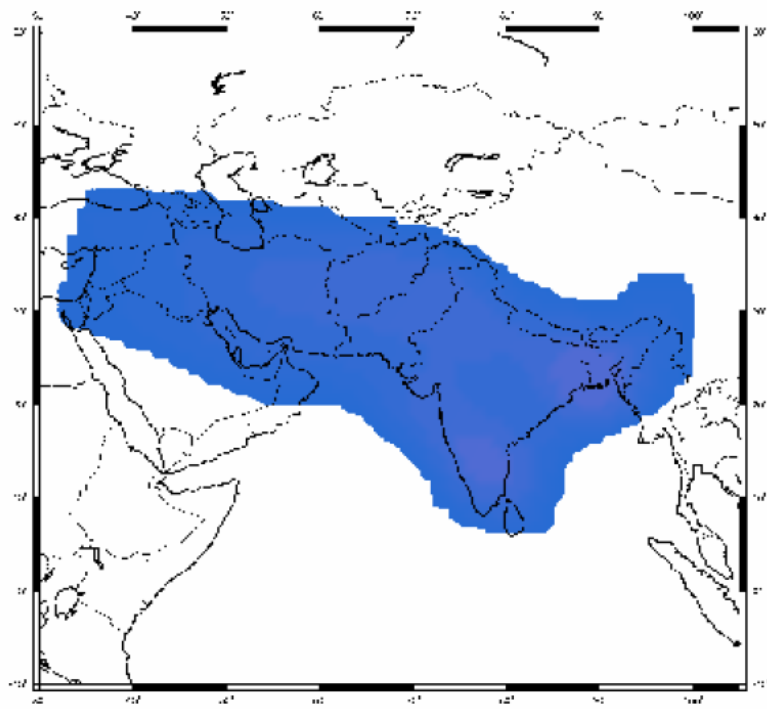
Loral Skynet EdS @ 63.05° West, NAOR Airline Service Footprint

Fig. 4



Yamal 200 @ 90° East, CIS Footprint NGA

Fig. 5



AsiaSat 3S @ 105.5° East, South Asia Beam NGA

Fig. 6

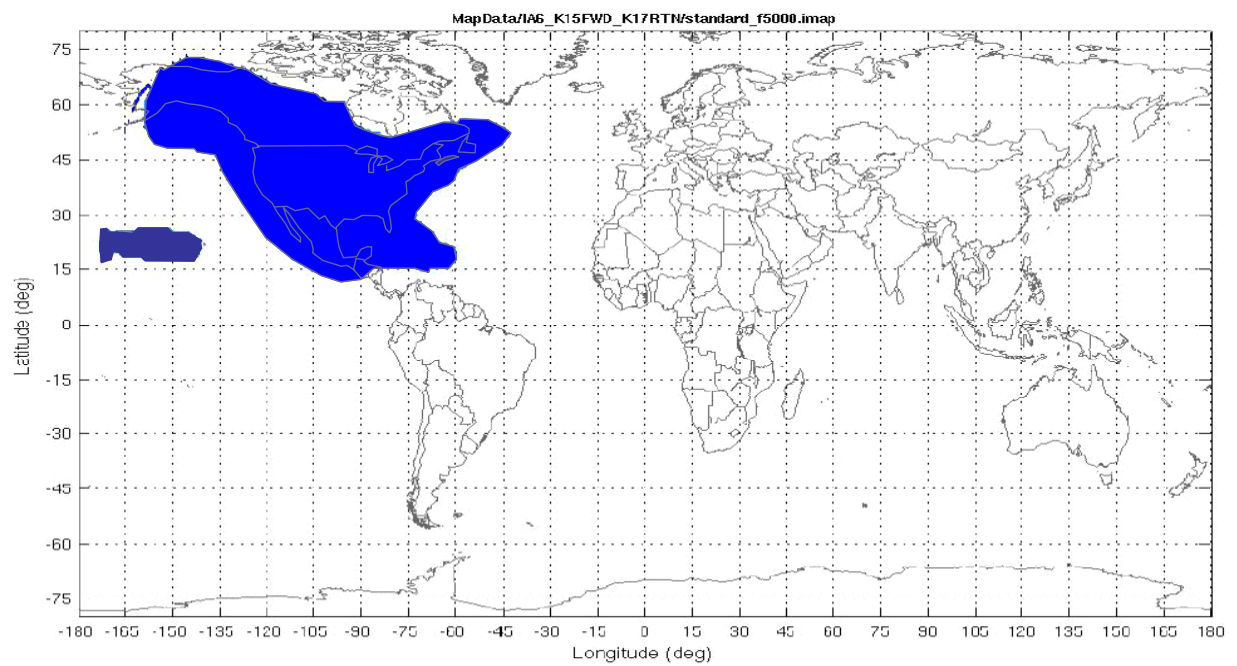


Fig. 7

