

MSAT

Tom.Christensen

COLLABORATORS

	<i>TITLE :</i> MSAT		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

MSAT

1.1 main

MSAT Satellite Guide

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Issue 1 (Release date 12.06.96)

General Information

- About MSAT
- Support Next Issue of MSAT Guide
- How to CONTACT Me
- Credits

Satellite Menu

- Satellite listings
 - Satellit News
 - Adresses to Tv companies (e-mail & WWW)
-

1.2 sat-news

Sat news

Disaster for Cnes.

NetHold prepers for DSTV.

Tv-3-S,N,D & Tv-1000 are leaving Astra

Esa

More fotball on Sky

Ses soon from 28.2° East

1.3 ariane-5

Ariane 5

Anyone who have been following Cnes & Ariane Space the past years know that they have been working on the new generation of launcher.

And after 10 years of work and millions of ecu the it has come to the magic date and D-Day for ARIANE 5, 4 june 1996.

In Ariane 5's cargo it did have 4 cluster satelittes for ESA these satellites was to monitor solar radiation.

10,9,8,7,6,5,4,3,2,1 ANIMASH we have lift of

After 1-10 secunds

Perfect launch

15-20 seconds

Ariane 5 are starting to leaning over.

30-37 seconds

Ariane 5 is still leaning over, and at this point Ariane 5 is on the point to crash into a the Pasific Osean so therefor Ariane 5 the first NEW lancer are being detonated by the control staff. What's left is the biggest fire works display evere well the most extensive.

After this launch there have come out news that says it was some ting wrong with the program that controls Ariane 5's course.

Next launch of Ariane 5 is going to take place in "a few months time" that i guess will be 3-4 months or august or september. So let us all hope for a bitt of succes at that launch

1.4 welcome

Welcome to the first issue of MSAT Guide.

You may wanna ask. "What in THE hell is MSAT". ?

Quite simple MSAT GUIDE is a satellit guide for amiga users to keep track of the new satelitt channels.

I will try to get out new MSAT GUIDE every month.

1.5 nethold

DSTV Channels form NETHOLD

Nethold is the company who is owning filmnet 1 & 2, Supersport.

These are the DSTV (digital Satelitte Tv) channels that filmnet will provide to it customers from august, september 96.

Basic Choice : Tv Norge
Plus Choice : SuperSport
Discovery Channel
NBC (NBC Super Channel)
EBN
TCC

BET
TRavel Preformance
Arts Channel
Bloomberg Information Television
Weather Channel
CNBC
DMX (Radio) - Digital Music Express
Giga Tv (**)
Microsoft NBC (**)
FilmNet : FilmNet 1, FilmNet 2, Hallmark Entertainment
Select Chioce : Hallmark Entertainment Television
NVOD,PPV (***) : Movies,concerts,Sports.

(**) - Coming on Astra F

(***) - Coming on Astra G

1.6 scansat

ScanSat are leaving Astra

Scandinavian Satelit brodcasting that was the first brocasters to use astra 1A way back in 1987 are now leaving astra.

Tv 3 Sweden are leaving astra Aug 96

Tv 3 Danmark are leaving astra aug 96

Tv 3 Norway are leaving astra 15 june 96

Tv-1000 are also leaving astra in august 96.

All of these services will be on intelsat 707 1\textdegree{}West.

SES did not want Scansat to leave astra as scansat is under contract with ses. But as BSKYB want to get all the transponders they can lay there hands on that are using 11 ghz and not the exended band they was very intrested in geting these channels that scansat are now leaving.

So sky will bye the transponders from scansat so the sky can get some more vide encrypted channels just for uk viewers.

1.7 astra-new

Go East

Luxembourg based commercial satellite operator SES will use the orbital slot 28.2#E for a new satellite system which is, not at all surprisingly, called ASTRA 2. The new position, which will allow SES access to the Russian and non-European markets, will be occupied by ASTRA 2A and 2B by

the end of 1997.

The next satellite due to be launched, however, is ASTRA 1G. It will be put into orbit by a Russian Proton rocket in June 1997. ASTRA 1H, the eighth satellite for the 19.2#E slot, will be modified by its manufacturer Hughes Space and Communications International to include a Ka-band payload, providing point-to-point or point-to-multipoint interactive applications across Europe. It will be launched during the third quarter of 1997. Actually, this will be the first commercial Ka-band payload manufactured by Hughes.

Before that, ASTRA 2A will embark on its journey to space. It will be launched with an Ariane rocket in August 1997. ASTRA 2A is an upgraded HS 601HP model, similar to ASTRA 1G and 1H. 2A, however, will have a xenon ion propulsion system, called XIPS, for orbital control. ASTRA 2A also will have 28 active Ku-band transponders operating in the Broadcast Satellite Service frequency band, equipped with 100-watt travelling-wave tube amplifiers.

ASTRA 2B will be the first ASTRA satellite since 1990 that was not built by Hughes, and it will be the first one built in Europe. Matra Marconi Space will deliver the spacecraft due to be launched in the first quarter of 1998.

Quite a lot of changes, but one thing never seems to change. Whenever SES announces a new satellite, Rupert Murdoch has already secured his share of available transponders. Actually, BSkyB has already leased 14 transponders on 28.2#E.

1.8 esa

ASA instead of ESA?

The Malaysian Science, Technology and Environment Minister has called for an Asian Space Agency. "By pooling our resources, Asian countries could save on funding and catch up with development of the aerospace technology," Minister Law Hieng Ding told reporters today. By co-operating in their own aerospace programmes, they would no longer have to depend on the European Space Agency. The first Malaysian communications satellite, MEASAT 1 (91.4#E,) was launched with a European Ariane rocket in January. MEASAT 2 is due for launch in October, again using European services.

1.9 sky

Nothing changes but the price

A normal soccer match still lasts about 90 minutes, there are usually some 22 players involved, and the game in itself probably hasn't become more interesting during the last few years. How come that each of the clubs in the English Premier League will cash in at least seven million pounds from 1997, almost the fourfold of the current amount, without doing anything but what they always did? Well, ask Rupert Murdoch. British Sky Broadcasting Plc won the right to screen English Premier League football from 1997 through 2001 worth 670 million pounds (US\$1 billion.) While matches are shown live by BSkyB, the BBC will continue to broadcast recorded highlights. It will pay 73 million pounds for the four-year term, outbidding their commercial competitors ITV. According to Premier League

chief executive Rick Parry, "This was a deliberate decision on our part to continue to secure a fair balance between terrestrial and satellite coverage."

Actually, the only new about this deal is the price that BSkyB and BBC have to pay; both are already holding the respective transmission rights until 1997. A consortium led by United News and Media Plc was also bidding for live transmission rights, a second one included Carlton Communications Plc and Mirror Group Newspapers Plc.

1.10 adr

E-Mail

BBC for children - childrens@bbc.co.uk
BT Goonhilly - visitors@goonhill.demon.co.uk
Cartoon Network Europe - cartoon.europe@turner.com
Chaparral Europe - rens@euronet.nl
C-Span - cspanguest@aol.com
Cmr - cmr@ukonline.co.uk
Media Raport - media@ebn.co.uk
NBC - marketing@nbc.com/
NRK - dagsrevyen@nrk.no
Paramount uk - feedback@bigpoint.com
TNT - turner@turner.com

WWW

BBC - <http://bbcnc.org.uk/>
BT Goonhilly - <http://>
Bravo - <http://www.uaep.co.uk.bravo.html>
BSKYB - <http://www.sky.co.uk>
CBC - <http://www.cbc.ca/>
CBS - <http://www.cbs.com>
Channel One - <http://www.channelone-onetv.co.uk/digital>
Channel 4 - <http://www.channel4.com>
Cnn - <http://www.cnn.com>
David Letterman Late show - <http://www.cbs.com:80/lateshow/ttlist.html>
Ebn - <http://www.ebn.co.uk>
Espn - <http://espnet.sportszone.com>
Intelsat - <http://www.intelsat.int.8088>
Jay Leno - <http://www.nbctonightshow.com>
MGM - <http://www.mgmua.com>
Mtv Usa - <http://mtv.com>
Nrk - <http://nrk.hiof.no/>
Pbs - <http://www.pbs.com>
Qvc - <http://www.qvc.com/>
Rtl 2 - <http://www.rtl2.de/>
Rtl Tv - <http://www.rtl.de>
Rtp Int - <http://www.rtp.pt/rtpinternacional>
Sat 1 - <http://www.sat1.de>
SBS6 - <http://www.cameo.nl/sbs6/default.html>
SES - <http://www.astra.lu>

Sci-Fi Channel - <http://www.scifi.com>
Tv Norge - <http://www.tvnorge.no>
Tv 5 Canada - <http://www.tv5.ca>
Universal - <http://www.pictures.com>
Vh-1 Usa - <http://here.viacom.com/vh1/index.html>

1.11 support-msat

MSAT SUPPORT

How can you help me with next issue of MSAT GUIDE. ?

You can help me with:

- Satellit listing

And satellit listings from satellits who are covering north america like Galaxy, Tv Direct, Echostar are the most intresting.

- Satellit news

If you have heard anything about a new channel or have some information about a launch that others like to know about.

- E-mail & www for tv stations or anything related to the satellit industri are welcome.

- I am also very intrested in footprint maps in gif or jpeg format.

So if you can help then pleas e-mail this to me in ascii format so that i can include this in next issue of MSAT GUIDE.

1.12 contact-author

CONTACT AUTHOR

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1.13 cre

Credits

--->> Jan-Tore Eliassen (JTE@infolink.no) thank you very much for helping me out with MSAT.ICON.

Get his JTEMWB (1-10) collection it's great.

Space for rent for every one who does some thing for the amiga.

1.14 satelliter

S A T E L L I T M E N U

- - - - -

ArabSat 4 Ghz

Astra 10,11,12 Ghz

Dbs 11,12 Ghz

Eutelsat 4,11,12 Ghz

Gorizont 4,11 Ghz

IntelSat 4,11 Ghz

Kopernicus	11,12 Ghz
Orion	4,11 Ghz
Pan Am Sat	4,11 Ghz
TeleCom	4,8,12 Ghz

1.15 arab-index

A R A B S A T I N D E X

ArabSat 1D R 4 Ghz

ArabSat 1C

1.16 arab1d

20 East		ARABSAT 1D-R		Dish size: 4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
-	-----	-	-----	-----	-	-	-----	-----	-
T	3.740	RC	SRT Syria	PAL	-	-	Arabic	6.60-	2
T	3.780	RC	AR TV1	PAL	-	-	Arabic	6.60-	3
T	3.816	RC		PAL	-	-	Arabic	6.60-	4
T	3.860	RC	AR TV2	PAL	-	-	Arabic	6.60-	7
T	3.940	RC	AR TV3/5	PAL	-	-	Arabic	6.60-	11
T	3.977	RC	Sudan TV	PAL	-	-	French	6.60-	
T	4.020	RC	AR TV4	PAL	-	-	Arabic	6.60-	15
T	4.064	RC	Orbit Info	MPEG	-	yes	Arabic	DIGITAL	17
T	4.064	RC	Orbit Al Qula	MPEG	-	yes	Arabic	DIGITAL	
T	4.064	RC	Orbit AL Thania	MPEG	-	yes	Arabic	DIGITAL	
T	4.064	RC	Orbit News	MPEG	-	yes	Arabic	DIGITAL	

T	4.064	RC	Super Movie Channel	MPEG	-	yes	Arabic	DIGITAL		
T	4.064	RC	BBC World Arabic	MPEG	-	yes	Arabic	DIGITAL		
T	4.064	RC	Orbit Sports	MPEG	-	yes	Arabic	DIGITAL		
T	4.064	RC	Music Now	MPEG	-	yes	English	DIGITAL		
T	4.064	RC	The Hollywood Channel	MPEG	-	yes	English	DIGITAL		
T	4.064	RC	ERTU 1/2	MPEG	-	yes	Arabic	DIGITAL		
T	4.064	RC	Discovery Channel	MPEG	-	yes	English	DIGITAL		
T	4.064	RC	Orbit	PAL	-	-	Arabic	6.60-		23

1.17 arabsat-1c

30.5 East ARABSAT 1C			Dish size: 4 m							
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
-	-----	--	-----	-----	--	---	-----	-----	---	
T	3.772	RC	Feeds						4	
R	3.772	RC	Radio Orient				Arabic	SPSC		
T	3.811	LC	Canal France International	PAL	-	-	French	6.60j	9	
T	3.829	RC	CNN	PAL	-	-	English	6.65	7	
R	"	"	CNN Radio				English	6.30s		
T	3.867	RC	Feeds							
T	3.956	LC	Dubai 1	PAL	x	-	Arabic	6.60-	14	
R	"	"	Radio Dubai				Arabic	7.20		
R	"	"	Dubai FM				English	7.74		
T	3.956	RC	Feeds							
T	3.977	RC	Saudi Arabia TV1	SECAM	-	-	Arabic	6.60-	15	
T	4.008	RC	RTM Marocco	SECAM	-	-	Arabic	6.65-	17	
T	4.033	LC	Dubai 2	PAL	x	-	Arabic	6.60-	18	
T	4.051	RC	Saudi Arabia TV2	SECAM	-	-	Arabic	6.65-	19	
T	4.051	LC	Feeds							
T	4.063	LC	Sultan of Oman TV	PAL	-	-	Arabic	6.60-	20	
T	4.081	RC	TV Maurtanie	SECAM	-	-	Arabic	6.65-	21	
T	4.081	LC	Feeds							
T	4.107	LC	MBC	PAL	-	-	Arabic	6.60-	22	
R	"	"	mbc FM				Arabic	7.38 7.56		
T	4.125	RC	Feeds							
T	4.144	LC	Jordan TV	PAL	-	x	Arabic	6.60-	24	
T	4.164	RC	Egypt TV	PAL	-	-	Arabic	6.60-	25	
T	4.180	LC	Kuwait TV	PAL	-	-	Arabic	6.60-	26	
R	"	"	Kuwait Radio 1				Arabic	5.80s		
R	"	"	Kuwait Radio 2				Arabic	7.40s		

1.18 astra

A S T R A M E N U

- - - - -

Astra Tv Channel Alocations

Astra 1A 11 Ghz

Astra 1B 11 Ghz

Astra 1C 11 Ghz

Astra 1D 11 Ghz

Astra 1E 11 Ghz

Astra Technical Inforamtion

Astra 1A

Astra 1B

Astra 1C

Astra 1D

Astra 1E

1.19 astra-1e-list

19.2 East ASTRA 1A 1B 1C 1D 1E				Dish size: 0.6 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	10.714	H	arte (german)	PAL	x	-	German	7.02 7.20	49
T	10.714		arte (french)				French	7.38	
T	10.714	H	Nickelodeon Deutschland (day)	PAL	x	-	German	7.02 7.20	
T	10.729	V	CNBC Super Channel	PAL	x	-	English	7.02 7.20	50
T	10.729	V	CNBC Super Channel (dutch)				Dutch	7.38	

T	10.729	V	CNBC Super Channel (german)				German	7.56			
T	10.744	H	Veronica 6 (part.encrypted)	PAL	x	Lux	Dutch	7.02	7.20	51	
T	10.759	V	RTL 4 (part.encrypted)	PAL	x	Lux	Dutch	7.02	7.20	52	
T	10.773	H	SBS 6 (to be terminated)	PAL	x	Lux	Dutch	7.02	7.20	53	
T	10.773	H	Chinese News & Entert.(1-5)	PAL		-	Chinese	7.02	7.20		
T	10.788	V	Zee TV (CET 08-01)	PAL		-	Vid Miscel.	7.02	7.20	54	
T	10.788	V	Chinese Channel (CET 01-08)	PAL		-	Nag Chinese	7.02	7.20		
T	10.803	H	Teleclub	PAL		-	Nag German	7.02	7.20	55	
T	10.818	V								56	
T	10.832	H	Astra Info (soon Racing Ch.)	PAL						57	
T	10.847	V	(Trailer)	PAL						58	
T	10.862	H								59	
T	10.877	V	Sky Movies Gold (CET 13-17)	PAL	x	Vid	English	7.02	7.20	60	
T	10.877	V	Racing Channel (CET12-17)	PAL			Vid English	7.02	7.20		
T	10.891	H								61	
T	10.906	V	H.O.T. Home Ordering Telev.	PAL	x	-	German	7.02	7.20	62	
T	10.921	H	FilmNet (Central Europe)	PAL	x	Vi2	English	7.02	7.20	63	
T	10.921	H	FilmNet (polish)				Polish	7.56			
T	10.921	H	FilmNet (czech)				Czech	7.74			
T	10.921	H	FilmNet (hungarian)				Hungarn	7.92			
T	10.921	H	The Adult Channel (night)	PAL	x	ViD	English	7.02	7.20		
T	10.936	V	RTL 5 (part. encrypted)	PAL	x	Lux	Dutch	7.02	7.20	64	
T	10.936	V	What's in store (CET 2-15)	PAL		-	-	English	7.02	7.20	

1.20 astra-1c-list

T	10.964	H	ZDF Zweites Deutsches Ferns.	PAL	x	-	German	7.02	7.20	33	
T	10.979	V	UK Living (CET7-1)	PAL	x	Vid	English	7.02	7.20	34	
T	10.979	V	TV-X Fantasy Channel (Night)	PAL			Vid English	7.02	7.20		
T	10.994	H	Children's Channel (CET7-18)	PAL	x	Vid	English	7.02	7.20	35	
T	10.994	H	The Family Channel (CET18-1)	PAL	x	Vid	English	7.02	7.20		
T	11.009	V	MiniMax (CET7-21)	PAL		-	Nag Spanish	7.02	7.20	36	
T	11.009	V	Sports Manja (CET21-1)	PAL		-	Nag Spanish	7.02	7.20		
T	11.023	H	Cartoon Network (CET6-20)	PAL	x	-	English	7.02	7.20	37	
T	11.023	H	TNT (CET20-6)	PAL	x	-	English	7.02	7.20		
T	11.023	H	TNT (french subcarrier)	PAL	x	-	French	7.38			
T	11.023	H	TNT (scandin. subcarrier)	PAL	x	-	Swe/Nor	7.56			
T	11.038	V	QVC (open Videocrypt)	PAL	x	(-)	English	7.02	7.20	38	
T	11.053	H	WDR Westdeutscher Rundfunk	PAL	x	-	German	7.02	7.20	39	
T	11.068	V	CineClassics	PAL		-	Nag Spanish	7.02	7.20	40	
T	11.082	H	The Learning Channl (CET10-17)	PAL	x	Vid	English	7.02	7.20	41	
T	11.082	H	Discovery Channel (CET17-1)	PAL	x	Vid	English	7.02	7.20		
T	11.097	V	Bravo (CET13-1)	PAL	x	Vid	English	7.02	7.20	42	
T	11.097	V	EBN (CET7-13)	PAL		-	Vid English	7.02	7.20		
T	11.097	V	The Playboy Channel (CET1-5)	PAL		-	Vid English	7.02	7.20		
T	11.112	H	MDR 3	PAL	x	-	German	7.02	7.20	43	
T	11.127	V	Galavisiçn	PAL		-	Spanish	7.02	7.20	44	
T	11.141	H	Bayern 3	PAL	x	-	German	7.02	7.20	45	
T	11.156	V	Nickelodeon UK (CET8-20)	PAL	x	Vid	English	7.02	7.20	46	
T	11.156	V	The Hollywood Channel (20-8)	PAL	?	Vid	English	7.02	7.20		
T	11.171	H	Sky Sports 2 (frCET19-moCET2)	PAL	x	Vid	English	7.02	7.20	47	
T	11.171	H	Sky Travel (mo-fr CET12-17)	PAL	x	Vid	English	7.02	7.20		
T	11.171	H	Sky Soap (mo-fr CET 9-12)	PAL	x	Vid	English	7.02	7.20		
T	11.171	H	Sci-fi Ch. (mo-we 20-23+2-5)	PAL	x	Vid	English	7.02	7.20		
T	11.171	H	Sky Sports Gold (mo-we 23-2)	PAL	x	Vid	English	7.02	7.20		

T 11.171 H History Channel (mo-fr 17-20) PAL x Vid English 7.02 7.20
T 11.171 H Christian TV (CET5-8) PAL - - English 7.02 7.20
T 11.186 V Sdwest 3 PAL x - German 7.02 7.20 48

1.21 astra-1a-list

T 11.214 H RTL 2 PAL x - German 7.02 7.20 1
T 11.229 V RTL Television PAL x - German 7.02 7.20 2
T 11.244 H TV 3 Sverige (will be term.) D2-MAC x EuM Swedish TONE1 HQ 3
T 11.259 V Eurosport (CET8-2) PAL x - English 6.50 4
T 11.259 V Eurosport (german) German 7.20
T 11.259 V Eurosport (dutch) Dutch 7.38
T 11.259 V Quantum Channel (CET2-8) PAL x - English 6.50
T 11.273 H VOX (CET11-2) PAL - - German 7.02 7.20 5
T 11.273 H Sell-a-Vision (CET6-11) PAL - - Miscel. 7.02 7.20
T 11.288 V Sat 1 PAL x - German 7.02 7.20 6
T 11.303 H TV 1000 (will be terminated) D2-MAC x EuM Swedish TONE1 HQ 7
T 11.318 V Sky One PAL x Vid English 7.02 7.20 8
T 11.332 H Kabel 1 PAL - - German 7.02 7.20 9
T 11.347 V 3sat (Germ/Aust/Swit.) PAL x - German 7.02 7.20 10
T 11.362 H FilmNet 1 D2-MAC x EuM Miscel. TONE1 HQ 11
T 11.377 V Sky News PAL x - English 7.02 7.20 12
T 11.391 H Super RTL PAL x - German 7.02 7.20 13
T 11.406 V Pro 7 PAL x - German 7.02 7.20 14
T 11.421 H MTV Europe PAL x Vid English 7.02 7.20 15
T 11.436 V Sky Movies PAL x Vid English 7.02 7.20 16

1.22 astra-1b-list

T 11.464 H Premiere PAL x Nag German 7.02 7.20 17
T 11.479 V The Movie Channel PAL x Vid English 7.02 7.20 18
T 11.494 H ARD PAL x - German 7.02 7.20 19
T 11.509 V Sky Sports PAL x Vid German 7.02 7.20 20
T 11.523 H DSF Deutsches Sportfernsehen PAL x - German 7.02 7.20 21
T 11.538 V Video Hits 1 PAL x Vid English 7.02 7.20 22
T 11.553 H UK Gold PAL x Vid English 7.02 7.20 23
T 11.553 H What's in store (CET 2-8) PAL English 7.02 7.20
T 11.568 V Country Music TV (CET7-20) PAL - Vid English 7.02 7.20 24
T 11.568 V JSTV (part.clear) (CET20-7) PAL - Vid Jap/Eng 7.02 7.20
T 11.582 H N 3 PAL x - German 7.02 7.20 25
T 11.597 V Disney Channel (CET6-23) PAL x Vid English 7.02 7.20 26
T 11.597 V Sky Movies Gold (CET23-3) PAL x Vid English 7.02 7.20
T 11.612 H TV 3 Danmark (will be term.) D2-MAC x EuM Danish TONE1 HQ 27
T 11.627 V CNN International (USA) PAL x - English 7.02 7.20 28
T 11.641 H n-tv PAL - - German 7.02 7.20 29
T 11.656 V Cinemanja (clear 21.00-21.30) PAL - Nag Spanish 7.02 7.20 30
T 11.671 H TV 3 Norge (-> Shop Europe) D2-MAC x EuM Norwegn TONE1 HQ 31
T 11.686 V Documanja (clear 20.15-21.00) PAL - Nag Spanish 7.02 7.20 32

1.23 astra-1d-list

T 11.720 H	Supersport (later -> MPEG)	D2-MAC -	-	Swedish	TONE1 HQ	65	
T 11.739 V						66	
T 11.759 H						67	
T 11.778 V						68	
T 11.798 H						69	
T 11.817 V						70	
T 11.837 H	ARD / ZDF	MPEG-2				71	
T 11.856 V						72	
T 11.876 H						73	
T 11.895 V						74	
T 11.915 H						75	
T 11.934 V						76	
T 11.954 H	Tests	MPEG-2				77	
T 11.973 V						78	
T 11.993 H						79	
T 12.012 V	Tests	MPEG-2				80	
T 12.032 H						81	
T 12.051 V						82	

1.24 1a-tech

ASTRA 1A Technical Information

Launch Date : December 11th 1988
 Launch Vehicle : Ariane 4, Flight 27
 Launch Site : Kourou, French Guyana
 Launch Mass : 1768 Kg

Satellite Manufacturer: GE Astro Electronics
 Satellite Type : 4000
 TWTA Output power : 45 watts
 Channel Capacity : 16 Ch pluss 6 spares

1.25 1b-tech

ASTRA 1B Technical Information

Launch Date : March 3rd 1991
 Launch Vehicle : Ariane 4, Flight 42
 Launch Site : Kourou, French Guyana
 Launch Mass : 2620 Kg

Satellite Manufacturer: GE Astro Electronics
 Satellite Type : 5000
 TWTA Output power : 60 watts
 Channel Capacity : 16 Ch pluss 6 spares

1.26 1c-tech

ASTRA 1C Technical Information

Launch Date : May 1993
Launch Vehicle : Ariane 4
Launch Site : Kourou, French Guyana
Launch Mass : 2635 Kg

Satellite Manufacturer: Hughes Aircraft Company
Satellite Type : HS601
TWTA Output power : 63 watts
Channel Capacity : 18 Ch pluss 6 spares

1.27 1d-tech

ASTRA 1D Technical Information

Launch Date : 1994
Launch Vehicle : Ariane 4
Launch Site : Kourou, French Guyana
Launch Mass : 2760 Kg

Satellite Manufacturer: Hughes
Satellite Type : HS 601
TWTA Output power : 63 watts
Channel Capacity : 18 Ch pluss 6 spares

1.28 1e-tech

ASTRA 1E Technical Information

Launch Date : 1995
Launch Vehicle : Ariane 4
Launch Site : Kourou, French Guyana
Launch Mass : 3000 Kg

Satellite Manufacturer: Hughes
Satellite Type : HS 601
TWTA Output power : 84 watts
Channel Capacity : 18 Ch pluss 6 spares

1.29 eutelsat

E U T E L S A T M A I N M E N U

Eutelsat 1 F 1 4,11 Ghz

Eutelsat 1 F 5 4,11 Ghz

Eutelsat 2 F 1 4,11 Ghz

Eutelsat 2 F 2 4.11 Ghz

Eutelsat 2 f 3 4,11 Ghz

1.30 ecs1-f1

48 East EUTELSAT I-F1

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	10.992	RC	Data feeds	PAL					7
T	11.658	RC	Data feeds	PAL					12a

ecs 1 f1

1.31 ecs1-f4

25.5 East EUTELSAT I-F4 (Inclined Orbit) Dish size: >2 m

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	11.095	H	Filmnet	PAL	-	Sve	Greek	Digital	2b
R	"	"	Radio Greece				Greek	6.60-	
T	11.137	H	Feeds (Horse race)					6.65-	3a
T	11.158	H	Feeds					6.65-	3
T	11.171	H	Feeds					6.65-	3b
T	11.475	H	Feeds					6.65-	4a
T	11.492	V	Feeds					6.65-	4
T	11.525	H	Feeds					6.65-	4b
T	11.658	H	Feeds					6.65-	6

1.32 ecs1-f5

21.5 East EUTELSAT 1F5				Dish size: 1.5 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	11.065	V	Feeds					6.60-	2a
T	11.096	H	Feeds					6.60-	2b
T	11.135	H	Feeds					6.60-	3a
T	11.178	H	Feeds					6.60-	3b
T	11.475	H	Feeds					6.60-	4a
T	11.525	H	Feeds					6.60-	4b
T	11.638	H	Feeds					6.60-	6a
T	11.678	H	Feeds					6.60-	6b

ecs 1 f 5

1.33 ecs-2-f1

13.0 East EUTELSAT II F1 / HOT BIRD				Dish size : 0.6-0.8 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	10.972	H	Viva 2	PAL	-	-	German	7.02 7.20	20a
T	10.987	V	NBC Super Channel	PAL	x	-	English	6.65-	25
T	10.987	V	NBC Super Channel (dutch)				Dutch	7.02	
T	10.987	V	NBC Super Channel (german)				German	7.20	
T	11.005	H	VIVA tv	PAL	-	-	German	7.02 7.20	20b
T	11.055	H	Kabel Eins (term. planned)	D2/CLR		-	German	TONE1 HQ	21a
T	11.080	V	arte (CET 19-3)	PAL	x	-	French	6.60j	26
T	11.080	V	La Cinquime (CET 7-19)	PAL	-	-	French	6.60j	
T	11.095	H	RTL 2	PAL	x	-	German	6.65	21b
T	11.146	H	Onyx TV	PAL	-	-	German	7.02 7.20	22a
T	11.163	V	Deutsche Welle TV	PAL	x	-	Ger/Mis	6.65	27
T	11.181	H	TRT INT Avrasya	PAL	x	-	Turkish	6.65-	22b
T	11.221	H	TV-E internacional	PAL	x	-	Spanish	6.60-	1
T	11.242	V	VH-1 Deutschland	MPEG	x		German	Digital	2
T	11.266	H	European Business TV	PAL	-	-	English	6.60	3
T	11.283	V	Bloomberg International TV	MPEG2		?	English		4
T	11.283	V	SciFi Channel	MPEG2		?	English		
T	11.283	V	MTV Europe	MPEG2		?	English		
T	11.283	V	VH-1	MPEG2		?	English		
T	11.304	H	MCM Euromusique (encr.plan.)	PAL	x	-	French	6.60j	5
T	11.325	V	TV 5 International	PAL	x	-	French	6.60-	6
T	11.345	H	Tele Mnchen 3	PAL		-	German	7.02 7.20	7
T	11.365	V	RAI Uno	PAL	x	(x)	Italian	6.60	8
T	11.387	H	Eurosport	PAL	x	-	English	6.65	9
T	11.387	H	Eurosport (no comments)				(none)	7.74	
T	11.408	V	Canal Horizons	PAL	x	Nag	French	7.02-7.20	10
T	11.428	H	Polsat	PAL		-	Polish	6.60	11
T	11.428	H	TV Bryza (2-6 in invert.PAL)	PAL-				6.60	
T	11.449	V	Rai Due	PAL	x	(x)	Italian	6.60	12
T	11.471	H	TV Polonia	PAL	-	-	Polish	6.60-	13
T	11.492	V	Polonia 1	PAL	-	-	Polish	6.60-	14
T	11.516	H	EDTV Dubai	PAL	-	-	Arabic	6.60	15
T	11.534	V	Rai Tre	PAL	x	(x)	Italian	7.20 7.20	16
T	11.554	H	mbc - Middle East Broadcast.	PAL	x	-	Arabic	7.02 7.20	32
T	11.575	V	EuroNews (english)				English	7.02	
T	11.596	H	RTL Television (MPEG planned)	PAL	x	-	German	7.02 7.20	33

T 11.617 V BBC World	PAL	x	-	English	6.60	38
T 11.638 H Eurotica	PAL			ViD English	7.02 7.20	34a
T 11.658 V MTV Europe	PAL	x		Vi2 English	7.02 7.20	39
T 12.521 H AB Channel 1	PAL			French	6.60	40
T 12.563 H Feeds (ITN/WTN)					6.65-	41
T 12.584 V Feeds					6.65j	46

1.34 ecs-2-f2

10.0 East EUTELSAT II F2 <1991>				Dish size : 0.8 m			
A VIDEO	PO PROGRAM	VIDSTD VT	COD LANGUAG	AUDIO	TP#		
T 10.972 V VTV		PAL	- - Slovak	6.60	25a		
T 10.987 H atv		PAL	- - Turkish	6.60-	20		
T 11.010 V Feeds (RAI)				6.65-	25b		
T 11.015 H Satel 2 (Dish Size > 3 m)		PAL	- - Turkish	6.60	20b		
T 11.055 H Feeds					21a		
T 11.061 V Feeds (TGRT)					26a		
T 11.080 H EU (European Union)		PAL		Miscel.	6.65		
T 11.095 H TGRT		PAL	- - Turkish	6.65	26b		
T 11.138 V Feeds							
T 11.149 H Feeds							
T 11.178 V AFN-TV		B-MAC	yes English	-	27b		
T 11.575 V Med TV (Kurdistan)		PAL	- - Arabic	6.60-	37		
T 11.575 V World Net / C-Span (CET10-17)		PAL	- - English	6.60-			
T 11.575 V Satisfaction Club TV		PAL	- NLS Miscel.	6.60			
T 11.596 H ERT - ET 1 (Greece)		PAL	- - Greek	6.60-	33		
T 11.617 V InterSTAR		PAL	- - Turkish	6.65	38		
T 11.659 V RTP Internaional		PAL	- - Portugs	6.60-	39		
T 12.548 V Feeds							

1.35 ecs-2-f3

16.0 East EUTELSAT II F3 <1991>				Dish size : 0.8 m			
A VIDEO	PO PROGRAM	VIDSTD VT	COD LANGUAG	AUDIO	TP#		
T 10.972 V RTM 1 Marocco (Rabat)		PAL	- - Arabic	6.60	25a		
T 10.987 H HRT Satelitski program (17-)		PAL	- - Croatin	6.65-	20		
T 10.987 H Eurostep (mo-fr CET 13-16)		PAL	- (x) Miscel.	6.65-			
T 10.987 H RendezVous TV		D2-MAC	- EuM French	TONE1 HQ			
T 11.006 V Feeds							
T 11.020 H TV 10 Gold / Music Factory		MPEG	- - Dutch	Digital	20b		
T 11.049 H Feeds							
T 11.063 V Feeds							
T 11.080 H Bosnia TV (tv bih)		PAL	- - Bosnian	7.00-	21		
T 11.095 V ART Europe (Egypt)		PAL	- - Arabic	6.65-	26b		
T 11.145 V Nile TV International		PAL	- - Ara/Eng	6.65-	27a		
T 11.163 H Triple X TV (Night)		D2-MAC	x EuM English	TONE1 HQ	22		
T 11.163 H Thaiwave / RDV		PAL	- Nag Thai	6.60			
T 11.178 V ESC Egypt Satellite Channel		PAL	- - Arabic	6.60	27b		
T 11.556 H TV Plus (evening)		D2-MAC	- EuM Dutch	TONE1 HQ	32		
T 11.556 H Euro 7 (CET 07-17)		PAL	- - Dutch	6.60			

T	11.556	H	Home Shopping Network (night)	PAL	-	-	English	6.60		
T	11.575	V	TV Shqiptar (CET 18.30-20.30)	PAL	x	-	Albania	6.60-		37
T	11.575	V	TV Romania (CET 20.30-23.30)	PAL	-	-	Romani	6.60-		
T	11.575	V	HTB (News) (CET 0.00-1.00)	PAL	-	-	Russian	6.60-		
T	11.575	V	Muslim TV (CET 12.30-17.00)	PAL	-	-	Arabic?	6.60-		
T	11.575	V	Vatican (CET 17.10-17.25)	PAL	-	-	Italian	6.60-		
T	11.596	H	Duna TV	PAL	x	-	Hungar.	6.50-		33
T	11.617	V	Canal Plus Polska	PAL	-	Nag	Polish	7.02 7.20		38
T	11.638	H	APNA TV (Planned: BTN TV)	PAL	-	-	Hindi	6.60		34a
T	11.656	V	TV7 Tunesienne	PAL	-	-	Arabic	6.60		39
T	11.678	H	TV Algeria	PAL	-	-	Arabic	6.60		34b
T	12.521	H	Feeds							40
T	12.542	H	Feeds							45
T	12.563	H	Feeds							41
T	12.583	V	Feeds							46
T	12.625	V	Feeds							47
T	12.708	V	Feeds							49

1.36 gyrozont-index

G O R I Z O N T / E X P R E S S I N D E X

Express 2 4 Ghz

Gorizont 22 4 Ghz

Gorizont 26 4 Ghz

1.37 express-2

14 West			EXPRESS 2	Dish size : 1 - 2 m						
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
T	3.675	RC	Ostankino 1 / GMS	SECAM	x	-	Russian	7.00-	6	
R	"	"	Radio Rossija 4				Russian	7.50		
T	3.725	RC	Feeds	SECAM				7.00s	7	
T	3.775	RC	Feeds	SECAM				7.50s	8	
T	3.825	RC	APNA	PAL	-	-	Fre/Mal	7.50-	9	
T	3.825	RC	Muslim TV	SECAM	-	-	Arabic	7.50-		
T	3.825	RC	Cuba Vision	NTSC	-	-	Spanish	7.50-		
T	3.875	RC	Feeds					7.00-	10	
T	3.940	RC	Feeds					7.00-	11	
T	3.975	RC	Tojacent	SECAM	x	-	?	7.00-	14	
R	"	"	Radio Rossija 4				Russian	7.50		

T	4.025	RC	RTP Internaional	PAL	-	-	Portugs	6.60-	15	
R	"	"	Capital FM		-	-		7.38 7.56		
T	4.075	RC	TV 3	SECAM	-	-	Russian	6.60-	16	
T	4.125	RC	Ostankino 1 / GMS	SECAM	x	-	Russian	7.00-	17	
R	"	"	Radio Rossija 4				Russian	7.50-		

1.38 gorizont-22

40.5 East GORIZONT 22 Dish size: 3 m

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
T	3.675	RC	Telekanal Rossija 2	SECAM	x	-	Russian	7.00-	6	
R	"	"	Radiostancija Majak				Russian	7.50s		
R	"	"	Radiostancija Junost				Russian	8.00s		
R	"	"	Radio Nostalgie				French	8.40s8.75		
T	3.730	RC	Feeds						7	
T	3.775	RC	Feeds						8	
T	3.825	RC	Feeds						9	
T	3.875	RC	Feeds						10	
T	3.925	RC	Feeds						11	
T	11.525	H	Feeds						k1	

1.39 gorizont-26

11 West GORIZONT 26 Dish size : >3 m.

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
T	3.675	RC	Oi TV	SECAM	x	-	Russian	7.00-	6	
R	"	"	Moscow World Service				Russian	7.50-		
T	3.725	RC	Feeds					7.00-	7	
T	3.775	RC	Feeds					7.00-	8	
T	3.825	RC	TV 6	PAL	-	-	Russian	6.60-	9	
T	3.875	RC	Feeds					7.00-	10	
T	3.925	RC	Feeds					7.00-	11	
T	11.525	RC	Saudi Arabic Channel 1	PAL	-	-	Arabic	7.00-	12	

1.40 intelsat

I N T E L S A T M A I N M E N U

Intelsat 502

Intelsat 504

Intelsat 506

Intelsat 507

Intelsat 510

Intelsat 512

Intelsat 515

Intelsat 601

Intelsat 602

Intelsat 603

Intelsat 604

Intelsat 702

Intelsat 704

Intelsat 705

Intelsat 706

Intelsat K

1.41 intel502

40.5 West INTELSAT 502				Dish size : 3 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	4.166	H	Feeds					6.60-	38a
T	4.188	H	Feeds					6.60-	38b
T	11.133	H	Feeds					6.60-	62
T	11.170	H	Feeds					6.60-	63
T	11.500	H	Feeds					6.60-	69

1.42 intel504

31.5 West INTELSAT 504 (Inclined Orbit)				Dish size : >4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	3.742	RC	Feeds					6.60-	21
T	3.885	RC	Feeds					6.60-	23a
T	11.135	V	Feeds (HGT-TV STS 55)					6.65-	73a

1.43 intel506

32.5 West INTELSAT 506				Dish size : >4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	10.973	V	Feeds						71a
T	11.014	V	Feeds						71b
T	11.136	V	Feeds						73a
T	11.172	V	Feeds (NBC USA)						73b
T	11.480	V	Feeds						74a
T	11.635	V	Feeds						79b

1.44 intel507

47 East INTELSAT 507									
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	3.525	RC	Feeds	PAL				-	

1.45 intel510

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57 East      INTELSAT 510  (Inclined Orbit)   Dish size: 5 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 3.914|RC|ETV Ethiopian TV  |PAL   |-|-|Miscel.|6.60-    |13 |
|T| 4.091|RC|Sat Racing          |PAL   | | | |        |Digital  |11 |
|T| 4.130|RC|Feeds                |PAL   | | | |        |6.60-    |37 |
|T| 4.166|RC|Feeds                |PAL   | | | |        |6.65-    |38a|
|T| 4.188|RC|Feeds                |PAL   | | | |        |6.65-    |38b|
|T|10.970|H |Feeds                |PAL   | | | |        |6.65-    |61a|
|T|11.137|H |Feeds                |PAL   | | | |        |6.65-    |63a|

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1.46 intel512

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21 West      INTELSAT 512          Dish size : 2 - 5 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 3.801|RC|Feeds                |      | | | |        |6.60-    |22a|
|T| 3.845|RC|Feeds                |      | | | |        |6.60-    |22b|
|T| 3.888|RC|Feeds                |      | | | |        |6.60-    |23a|
|T| 3.932|RC|Tele Sahel        |MPEG  |-|-|French |Digital  |23b|
|T| 4.052|RC|Feeds                |      | | | |        |6.60-    |17 |
|T|11.015|V |Feeds                |      | | | |        |6.60-    |71b|
|T|11.132|H |Feeds                |      | | | |        |6.60-    |63a|
|T|11.174|H |Feeds                |      | | | |        |6.60     |63b|

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1.47 intel515

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18 West      INTELSAT 515          Dish size :
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 4.166|RC|Feeds                |      | | | |        |6.65-    |38a|
|T| 4.188|RC|Feeds                |      | | | |        |6.65-    |38b|
|T|10.970|H |Feeds                |      | | | |        |        |61a|
|T|10.975|V |Feeds                |      | | | |        |6.65-    |71a|
|T|11.010|V |Feeds                |      | | | |        |6.65-    |71b|
|T|11.016|H |Feeds                |      | | | |        |        |61b|
|T|11.133|H |Feeds                |      | | | |        |        |63a|
|T|11.137|V |Feeds                |      | | | |        |6.65-    |73a|
|T|11.174|V |Feeds                |      | | | |        |6.65-    |73b|
|T|11.177|H |Feeds                |      | | | |        |        |63b|
|T|11.480|V |Feeds                |      | | | |        |6.60-    |74a|
|T|11.540|H |Feeds                |      | | | |        |        |69 |
|T|11.680|V |Feeds                |      | | | |        |6.60-    |79b|

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1.48 intel601

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27.5 West   INTELSAT 601  <1989>   Dish size : 1.2 m (CBAND: 3 m)
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#|
|-----|---|-----|-----|---|---|-----|-----|-----|

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T	3.655	RC	BBC / M-Net / K TV	PAL	-	Sav	English	6.60-	20	
T	3.742	RC	C-Span	PAL	-	-	Eng/Ger	6.60-	21	
T	3.883	RC	Canal Horizons	PAL	-	Sys	French	6.60m	23a	
T	3.915	RC	Canal France	SECAM	-	-	French	5.80m	23b	
T	4.023	RC	RTA Entv Algeria	PAL	-	-	Arabic	7.50-	24	
T	4.048	RC	CNN	PAL	-	-	English	6.65-	17	
T	4.125	RC	Fbis	B-MAC	-	-	English	Digital	87	
T	4.130	RC	Gems	MPEG 2	-	-		Digital		
T	10.995	V	BBC Prime	D2-MAC	x	EuM	English	TONE1 HQ	71	
T	10.995	H	Feeds					6.60-	61a	
T	11.015	H	Feeds					6.60-	61b	
T	11.055	H	Discovery Channel	PAL	x	-	English	7.02-7.20	62a	
T	11.055	H	Children's Channel	PAL	x	-	English	7.02-7.20	62a	
T	11.094	V	Feeds					6.60-	72b	
T	11.095	H	Parliamentary/Learning/WireTV	MPEG			English	Digital	62b	
T	11.138	V	Feeds					6.65-	73a	
T	11.138	H	Feeds					6.60-	63a	
T	11.155	V	Feeds					6.65-	73	
T	11.171	V	CMT Europe	PAL	-	-	English	7.02-7.20	73	
T	11.175	H	KinderNet / VTV (CET7-10)	PAL	-	-	Dutch	7.02-7.20	63b	
T	11.175	H	Travel Channel (CET13-24)	PAL	x	-	English	7.02-7.20		
T	11.475	V	Feeds						64	
T	11.475	H	Feeds							
T	11.515	V	Feeds						75a	
T	11.562	V	Feeds					6.65-	75b	
T	11.591	H	SIS	B-MAC		Yes			69a	
T	11.647	V	FilmNet	MPEG	-			Digital	76a	
T	11.665	H	TV 1000 Cinema	D2-MAC	-	EuM	Swedish	TONE1 HQ	70	
T	11.675	V	Feeds					6.60-	79b	

1.49 intel602

63 East			INTELSAT 602 <1988>	Dish size: 2 m (IRIB=3 m)					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
-	-----	--	-----	-----	--	---	-----	-----	---
T	4.166	RC	Feeds					6.65-	38a
T	4.188	RC	Feeds					6.65-	38b
T	10.975	H	Feeds Telespazio					6.60-	61a
T	11.002	V	IRIB TV 2	SECAM		-	Persian	6.80-	71a
T	11.011	H	Rete 4	PAL	x	-	Italian	6.60-	61b
T	11.055	H	Cinquestelle	PAL	x	-	Italian	6.60-	62a
T	11.094	H	Feeds					-	62b
T	11.100	V	IRIB TV 3	SECAM			Persian	6.80-	72
T	11.137	H	Italia 1	PAL	x	-	Italian	6.60-	63a
T	11.155	V	IRIB TV 1	SECAM		-	Persian	6.80-	73
T	11.173	H	Canale 5	PAL	x	-	Italian	6.60-	63b
T	11.488	H	Feeds					6.65-	64a
T	11.511	H	Feeds					6.60-	64b
T	11.515	V	Feeds					6.60-	75a
T	11.640	H	Feeds					6.60-	69a

1.50 intel603

34.5 West INTELSAT 603				Dish size : 4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	3.910	LC	Feeds					? -	53a
T	3.930	LC	Feeds					? -	53b
T	4.166	RC	Feeds					6.65-	38a
T	4.188	RC	Feeds					6.65-	38b
T	10.971	V	Muslim TV	PAL	-	-	Miscel.	6.60-	71a
T	11.005	V	Feeds					6.65-	71b
T	11.145	V	Feeds (EBU)					6.60-	73a
T	11.180	V	Feeds					? -	73b
T	11.467	V	Feeds					6.65-	74a
T	11.490	V	Feeds					6.65-	74b
T	11.631	V	Feeds					6.60-	79

1.51 intel604

60 East INTELSAT 604				Dish size: 4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	4.166	RC	Feeds					6.65-	38a
T	4.188	RC	Feeds					6.65-	38b
T	10.975	V	Feeds	PAL				6.60-	71a
T	10.992	H	Feeds	PAL				6.80-	61a
T	11.010	H	Feeds	PAL				6.65-	61b
T	11.010	V	Feeds	PAL				6.60-	71b
T	11.138	H	Feeds	PAL				6.80-	63a
T	11.150	V	Feeds	PAL				7.00-	73a
T	11.495	V	Feeds	PAL				6.60-	74b
T	11.562	V	Feeds	PAL				6.60-	75b
T	11.650	H	Feeds	PAL				6.80-	69a
T	11.685	H	Feeds	PAL				6.80-	69b

1.52 intel702

1.0 West INTELSAT 702 AOR <1994>				Dish size : 0.6 m (C-BAND : 3 m)					
A	VIDEO	PO	PROGRAM (Israel TV > 3 m)	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	3.840	RC	TV 5 International	SECAM	-	-	French	6.60-	21
T	3.900	LC	Feeds						
T	3.931	LC	Samanyolo TV	PAL	-	-	Turkish	6.65-	23
T	4.023	LC	TV Libya	PAL	-	-	Arabic	6.20-	24
T	4.137	LC	Nile-TV	PAL	-	-	Arabic	6.60-	
T	4.137	LC	Egyptian Satelllite Channel	SECAM	-	-	Arabic	6.60-	
T	4.175	RC	AFRTS (Air Force Radio TV)	B-MAC	-	-	English	Digital	38
T	10.965	H	Feeds						
T	10.969	V	Feeds						
T	11.016	H	TV Norge	PAL	-	-	Norwegn	6.60	61b
T	11.017	V	Israel TV3	PAL	-	-	Hebrew	6.60-	71b
T	11.055	V	TV 1000	D2-MAC	-	-	EuM	Swedish	TONE1 HQ 72a

T 11.096 H TV 3 Norge	D2-MAC x EuM Norwegn TONE1 HQ 62b
T 11.135 H Feeds	
T 11.136 V Israel TV1	PAL - Hebrew 6.60- 73
T 11.176 H NRK	D-MAC x - Norwegn TONE1 HQ 63b
T 11.178 V Israel TV2	- Hebrew 6.60- 7b
T 11.473 H TV 3 Danmark	D2-MAC x EuM Danish TONE1 HQ 75
T 11.555 " TV 2 Norge	D2-MAC x Eu2 Norwegn TONE1 HQ 65
T 11.597 V TV 3 Sverige	D2-MAC x EuM Swedish TONE1 HQ 79
T 11.679 H TV Plus	D2-MAC - EuM Norwegn TONE1 HQ 69

1.53 intel704

66 East INTELSAT 704				Dish size: 4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
-	-----	--	-----	-----	--	--	-----	-----	---
T	3.770	RC	Feeds					6.60-	11
T	3.795	RC	Feeds					6.60-	12
T	3.970	RC	Feeds					6.60-	14
T	4.045	LC	E TV	PAL	-	-	Maleis	6.60-	
T	4.059	RC	Feeds					6.60-	
T	4.095	LC	India TV / Yes	PAL	-	-	Mal/Eng	6.60-	
T	4.177	RC	Deutsche Welle / World Net	PAL	-	-	Ger/Eng	6.60-	
T	11.140	H	Feeds					6.60-	63a

1.54 intel705

50 West INTELSAT 705									
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
-	-----	--	-----	-----	--	--	-----	-----	---
T	3.855	RC	Feeds					6.60-	

1.55 intel706

53 West INTELSAT 706				Dish size : >4 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
-	-----	--	-----	-----	--	--	-----	-----	---
T	3.720	RC	Feeds					6.60-	21a
T	3.772	LC	Feeds					6.60-	11
T	3.775	RC	Feeds					6.60-	21b
T	3.920	RC	Feeds					6.60-	06
T	3.990	RC	2 M	SECAM	-	Dis	Arabic	6.65-	14
T	11.498	V	Feeds					6.65-	

1.56 intelk

1.58 dfs1

23.5 East DFS KOPERNIKUS 1 <1991>				Dish size: 0.8 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	11.475	H	Sat 1	PAL	x	-	German	6.65	a1
T	11.525	H	(Test picture)						a2
T	11.548	V	arte (german)	PAL	x	-	German	7.02 7.20	b1
T	11.548	V	arte (french)				French	7.38	
T	11.600	V	VOX	PAL	-	-	German	7.02 7.20	b2
T	11.625	H	Nickelodeon Deutschland(6-20)	PAL	x	-	German	7.02 7.20	c1
T	11.675	H	Der Wetterkanal (9-17)	PAL	-	-	German	7.02 7.20	c2
T	12.524	V	Feeds						k1
T	12.559	H	Feeds						k2
T	12.591	V	Premiere	PAL	x	Nag	German	7.02 7.20	k3
T	12.621	V	RAI1+2/ATV2/KanalD/TV Polonia	DIGIT.			Miscel.		
T	12.658	V	ARD/ZDF/SAT1/RTL/PRO SIEBEN	DIGIT.			German		k5
T	12.692	H	Feeds						k6

1.59 dfs2

28.5 East DFS KOPERNIKUS 2 <1989>				Dish size: 0.8 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	11.475	H	Cable Plus	PAL	-	Vi2	Czech	6.60-	a1
		"	Eurosport audio				Czech	7.38-7.56	
T	11.525	H	Premiera TV	PAL	-	NKS	Czech	6.60-	a2
T	11.548	V	RTL	PAL	x	-	German	6.65-	b1
T	11.601	V	Feeds						b2
T	11.625	H	TS-News / Sat 1 regional	PAL	-		German	6.65-	c1
T	11.675	H	Feeds						c2
T	12.525	H	VT 4 (Belgium)	MPEG	-	Nag	Dutch	Digital	k1
T	12.559	H	Feeds						k2
T	12.591	H	Feeds						k3
T	12.625	H	Feeds					6.60-	k4
T	12.655	H	Feeds						k5
T	12.692	H	Feeds (RTL regional prog.)					6.65-	k6
T	12.725	V	Feeds					6.60-	k7

1.60 telecom

F R E N C E T E L E C O M M A I N M E N U

Telecom 1 C 4,8,12 Ghz

Telecom 2 A 4,8,12 Ghz

Telecom 2 B 4,8,12 Ghz

1.61 tcom1c

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3 East      TELECOM 1C          Dish size : 1 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 3.710|RC|Feeds          |      |  |  |      |      |      |c1a|
|T| 3.740|RC|Feeds          |      |  |  |      |      |      |c1b|
|T| 3.770|RC|Feeds          |      |  |  |      |      |      |c2a|
|T| 3.795|RC|Feeds          |      |  |  |      |      |      |c2b|
|T|12.522|V |Feeds          |      |  |  |      |      |      |r1 |
|T|12.542|H |Feeds          |      |  |  |      |      |      |r7 |
|T|12.563|V |Feeds          |      |  |  |      |      |      |r2 |
|T|12.585|H |Feeds          |      |  |  |      |      |      |r8 |
|T|12.606|V |Feeds          |      |  |  |      |      |      |r3 |
|T|12.627|H |Cin-Cinfil      |D2-MAC|- |EuM|French |TONE1 HQ |r9 |
|T|12.648|V |Feeds          |      |  |  |      |      |      |r4 |
|T|12.690|V |Feeds          |      |  |  |      |      |      |r5 |
|T|12.710|H |Feeds          |      |  |  |      |      |      |r11|
|T|12.732|V |Feeds          |      |  |  |      |      |      |r6 |
tcom 1c

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1.62 tcom2a

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8.0 West    TELECOM 2A <1992> Dish size : 0.6 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 3.710|RC|Feeds          |      |  |  |      |      |      |c1a|
|T| 3.740|RC|Feeds          |      |  |  |      |      |      |c1b|
|T| 3.770|RC|Feeds          |      |  |  |      |      |      |c2a|
|T| 3.795|RC|Feeds          |      |  |  |      |      |      |c2b|
|T|12.522|V |Canal Plus France |D2-MAC|- |EuM|French |TONE1 HQ |k1 |
|T|12.544|H |MCM Euromusique   |SECAM  |- |Nag|French |7.02 7.20|k7 |
|T|12.564|V |Paris Premire     |SECAM  |- |Nag|French |6.60-    |k2 |
|T|12.585|H |Plante            |SECAM  |- |Nag|French |6.60-    |k8 |
|T|12.606|V |France Supervision |D2-MAC|x  |- |French |TONE1 HQ |k3 |
|T|12.627|H |Cin-Cinfil        |SECAM  |- |Nag|French |6.60-    |k9 |
|T|12.648|V |Canal Plus France |SECAM  |- |Nag|French |6.60-    |k4 |
|T|12.669|H |Cin-Cinmas        |SECAM  |- |Nag|French |6.60-    |k10|
|T|12.690|V |Cin-Cinmas        |D2-MAC|- |EuM|French |TONE1 HQ |k5 |
|T|12.711|H |TV Sport           |SECAM  |- |Nag|French |6.60-    |k11|
|T|12.732|V |Canal J/Canal Jimmy |SECAM  |- |Nag|French |6.60-    |k6 |

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1.63 tcom2b

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5.0 West TELECOM 2B <1992> Dish size : 0.6 m
|A|VIDEO|PO|PROGRAM|VIDSTD|VT|COD|LANGUAG|AUDIO|TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 3.710|RC|Feeds| | | | | |6.60-|c1a|
|T| 3.740|RC|Feeds| | | | | |6.60-|c1b|
|T| 3.770|RC|Feeds| | | | | |6.60-|c2a|
|T| 3.795|RC|Feeds| | | | | |6.60-|c2b|
|T|12.522|V|M6 - Mtropole 6|SECAM|-|-|French|5.80j|k1|
|T|12.544|H|RTL 9|SECAM|-|Yes|French|6.60j|k7|
|T|12.564|V|France 2|SECAM|x|-|French|5.80j|k2|
|T|12.584|H|La Chaine Info|SECAM|-|Nag|French|5.80j|k8|
|T|12.606|V|arte (CET 19-1)|SECAM|x|-|French|5.80j|k3|
|T|12.606|V|La Cinquime (CET 1-19)|SECAM|x|-|French|5.80j| |
|T|12.627|H|RTL-TVi|PAL|-|Yes|French|6.60j|k9|
|T|12.648|V|Tele Monte Carlo|SECAM|-|Nag|French|5.80j|k4|
|T|12.648|V|La Chaine Mteo (6-9 CET)|SECAM|-|-|French|5.80j| |
|T|12.689|V|TF 1 - Tlvision Franaise|SECAM|x|-|French|5.80j|k5|

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1.64 dbs

D I R E C T B R O D C A S T I N G S A T E L L I T E

Sirius

Tdf

Tele-X

Thor 1A

Tv Sat

TurkSat 1B

HispaSat

1.65 sirius

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5.2 East   SIRIUS       <1990>           Dish size : 0.4 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO   |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T|11.785|RC|              |      |  |  |      |      |      | 4 |
|T|11.862|RC|Z-TV Sverige    |D2-MAC|x |EuM|Swedish|TONE1 HQ | 8 |
|T|11.938|RC|TV 4 Sverige     |PAL   |x |- |Swedish|7.02 7.20|12 |
|T|12.015|RC|TV 6/TV-G (monday-friday)|D2-MAC|x |EuM|Swedish|TONE1 HQ |16 |
|T|12.015|RC|Sportskanalen (saturd./sund.)|D2-MAC|x |EuM|Swedish|TONE1 HQ |16 |
|T|12.092|RC|TV 3 Sverige     |D2-MAC|x |EuM|Swedish|TONE1 HQ |20 |

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1.66 tdf

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18.8 West  TDF 1 <1987> og TDF 2 <1989> Dish size : 0.6 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO   |TP#|
|-|-----|---|-----|-----|-----|-----|-----|-----|
|T|11.804|RC|Canal Plus        |D2-MAC|- |EuM|French |TONE1 HQ | 5 |
|T|11.881|RC|Cin-Cinmas         |D2-MAC|x |EuM|French |TONE1 HQ | 9 |
|T|12.034|RC|Canal France International |D2-MAC|  |EuM|French |TONE1 HQ |17 |

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1.67 tele-x

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5.0 East   TELE - X   <1989>           Dish size : 0.4 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO   |TP#|
|-|-----|---|-----|-----|-----|-----|-----|-----|
|T|12.207|LC|Baltic University (feeds) |PAL   |- |- |Miscel.|6.60   |26 |
|T|12.322|LC|DR, Danish TV2, Swedish 1+2|MPEG-2|x |- |SweDan |         |32 |
|T|12.475|LC|Kanal Fem         |PAL   |x |- |Swedish|7.02 7.20|40 |
|T|12.600|LC|Z-TV Norge       |MPEG  |  |  |Norwegn|         |  |
|T|12.605|LC|Z-TV Danmark     |MPEG  |  |  |Danish |         |  |
|T|12.641|LC|Nornet (tues/wedn. afternoon)|PAL   |- |- |Swedish|6.60   |  |
|T|12.668|LC|Z-TV S+DK+N and TV 6 S+DK+N|MPEG-2|  |  |SwDaNo |         |  |

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1.68 thor-1

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0.8 West   THOR <1990>           Dish size : 0.4 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO   |TP#|
|-|-----|---|-----|-----|-----|-----|-----|-----|
|T|11.785|RC|CNN International    |D2-MAC|x |Eu2|English|TONE1 HQ | 4 |

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T	11.861	RC	EuroSport Nordic	D2-MAC	x	Eu2	Eng/Swe	TONE1 HQ	8	
T	11.938	RC	Children's Channel (CET7-17)	D2-MAC	x	Eu2	English	TONE1 HQ	12	
T	11.938	RC	Discovery Channel (CET17-1)	D2-MAC	x	Eu2	English	TONE1 HQ		
T	12.015	RC	FilmNet 2	D2-MAC	x	Eu2	English	TONE1 HQ	16	
T	12.091	RC	MTV Europe	D2-MAC	x	Eu2	English	TONE1 HQ	20	

1.69 tvsat

0.6 West TV-SAT <1989> Dish size : 0.4 m

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
T	11.900	LC	TV1000 Cinema	D2-MAC	-	EuM	Swedish	TONE1 HQ	10	
T	11.977	LC	Z-TV Danmark (encrypt.plan.)	D2-MAC	-	-	Danish	TONE1 HQ	14	
T	12.054	LC	TV 6 / TV-G Danmark	D2-MAC	-	-	Danish	TONE1 HQ	18	

1.70 turk1a

42 East TRKSAT <1994> Dish size: 2.5 m (EB = 0.8 m)

A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#	
T	10.970	V	atv Int. (Europa-Beam)	PAL	-	-	Turkish	6.60		
T	10.980	H	HBB	PAL	-	-	Turkish	7.02 7.20	4	
T	11.012	V	Kanal 7 (Europa-Beam)	PAL	-	-	Turkish	6.60	5	
T	11.030	H	Kanal D (Europa-Beam)	PAL	-	-	Turkish	6.60	13	
T	11.054	V	Feeds							
T	11.080	H	Kanal 6	PAL	-	-	Turkish	6.65	14	
T	11.096	V	Samanyolu TV	PAL	-	-	Turkish	6.65	7A	
T	11.120	V	Feeds						7B	
T	11.130	H	Cine 5	PAL	-	Nag	Turkish	6.65	15	
T	11.145	V	Euro Show (Europa Beam)	PAL	-	-	Turkish	6.65	8a	
T	11.175	H	Show TV	PAL	-	-	Turkish	6.65	16	
T	11.183	V	Kanal D	PAL	-	-	Turkish	6.65	8b	
T	11.462	H	Kanal 7	PAL	-	-	Turkish	6.65	9	
T	11.479	V	TRT International (Asia-Beam)	PAL	x	-	Turkish	6.80s	1a	
T	11.508	V	Feeds						1b	
T	11.556	H	TRT 1	PAL	x	-	Turkish	6.80s	10a	
T	11.592	H	TRT 2 / GAP	PAL	x	-	Turkish	6.80s	10b	
T	11.644	H	TRT 3	PAL	x	-	Turkish	6.80s	11a	
T	11.678	V	Feeds						3	
T	11.680	H	TRT 4	PAL	x	-	Turkish	6.80s	11b	
T	11.690	V	Feeds						2	

1.71 pas

P a n A m S a t

Pan Am Sat 1

Pan Am Sat 3

Pan Am Sat 4

1.72 pas1

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45 West      PANAMSAT 1          Dish size : >1 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T|11.478|H |Feeds                |PAL   | | | |        |6.20-6.80|19a|
|T|11.515|H |Galavisiϕn      (Mexico) |PAL   |-|-|Spanish|6.20-6.80|19b|
|T|11.595|H |Feeds                |PAL   | | | |        |          |20b|
|T|11.639|H |Feeds                |PAL   | | | |        |6.20-6.80|21a|
|T|11.675|H |ESPN                |B-MAC |-|x|English|Digital  |21b|

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1.73 pas3

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43 West      PANAMSAT PAS-3-R
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#| |
|---|---|---|---|---|---|---|---|---|---|---|
|T| 4.100|V |Tests                |      | | | |        |          |14c|
|T| 4.147|V |Tests                |      | | | |        |          |16c|
|T| 4.165|V |Tests                |      | | | |        |          |16c|
|T|12.501|V |Tests                |      | | | |        |          |16k|
|T|12.567|H |Sesanta Sport      |PAL   |-|-|English|6.60-    |18k|
|T|12.670|V |Tests                |      | | | |        |          |22k|
|T|12.716|V |Tests                |      | | | |        |          | ←
|T|12.730|H |Tests                |      | | | |        |6.60-    |24k|

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1.74 pas4

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68.5 East   PANAMSAT PAS-4          Dish size: 3 m
|A|VIDEO |PO|PROGRAM          |VIDSTD|VT|COD|LANGUAG|AUDIO      |TP#|
|-|-----|---|-----|-----|---|---|-----|-----|---|
|T| 3.790|H |Asian Business News |PAL   |-|-|Asian? |6.80-    |9c |
|T| 3.850|V |China TV4          |PAL   |-|-|Chinese|6.60-    |6u |
|T| 3.915|H |Sony Entertainment TV |PAL   |-|-|Hindu  |7.20-    |7c |
|T| 4.040|V |India TV           |PAL   |-|-|Maleis |6.30-6.80|11u|
|T| 4.040|V |Movie Club         |PAL   |-|-|Maleis |6.30-6.80|   |
|T| 4.100|H |CNN International   (Asia) |PAL   |-|-|English|6.80-    |131|

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T	4.115	H	TNT/Cartoon Network (Asia)	PAL	-	-	English	6.80-	13u
T	4.153	V	BBC World	PAL	-	-	English	6.60-	16c
T	4.165	H	Jain	PAL	-	-	Hindu	6.80-	15l
T	4.185	H	MTV Asia	PAL	-	-	Asian?	7.60-7.80	15u
T	11.524	H	ART 3/5	PAL	-	-	Arabic	6.60-	19k
T	11.584	H	Showtime	PAL	-	-	Arabic	7.56-7.74	21k
T	11.649	H	ART Europe	PAL	-	-	Arabic	6.60-	23k
T	12.574	V	ART 1/3	PAL	-	-	Arabic	6.60-	
T	12.591	V	NHK Tokyo	NTSC	-	-	Miscel.	6.80-7.50	20k

1.75 orion

37.5 West ORION-1 <1995>			Dish size : 1.5 m						
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
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T	11.468	V	Feeds					6.60-	5l
T	11.469	H	Feeds					? -	14l
T	11.483	V	Feeds					6.60-	5
T	11.496	H	Feeds					? -	14u
T	11.498	V	Feeds					? -	5u
T	11.533	H	Feeds					6.65-	15
T	11.546	V	Feeds					? -	6
T	11.559	V	Feeds					6.60-	6u
T	11.596	H	Asia Net	PAL	x	-	Hindi	6.60-	16
T	11.618	V	Feeds					6.60-	7l
T	11.619	H	Feeds					6.60-	17l
T	11.640	V	Feeds					? -	7u
T	11.672	V	Feeds					? -	7
T	11.672	H	Feeds					6.20-	17u
T	11.684	H	Feeds					6.65-	12l
T	12.514	V	Feeds					? -	1l
T	12.514	H	Feeds					6.60-	9l
T	12.528	H	Feeds					6.60-	9
T	12.530	V	Feeds					? -	1
T	12.542	H	Feeds					6.60-	9u
T	12.544	V	Feeds					? -	1u
T	12.577	H	Feeds					6.60-	10l
T	12.585	V	Feeds					6.60-	2
T	12.591	H	Feeds					6.60-	10
T	12.605	H	Feeds					6.60-	10u
T	12.640	V	Feeds					? -	3l
T	12.645	H	Feeds					6.60-	1l
T	12.668	V	Korea TV (CET 20-21)	PAL	-	-	Korean	6.60-	3u
T	12.699	H	Feeds					? -	12
T	12.703	V	Feeds					? -	4l
T	12.717	V	Feeds					? -	4
T	12.726	H	Feeds					? -	13
T	12.740	V	Feeds					? -	4u

1.76 hps

30.5 West HISPASAT 1A/1B				Dish size : 1 m					
A	VIDEO	PO	PROGRAM	VIDSTD	VT	COD	LANGUAG	AUDIO	TP#
T	11.510	V	Feeds					? -	7a
T	11.517	H	Feeds					? -	16a
T	11.536	V	Feeds					6.60-	7b
T	11.538	V	Feeds					6.60-	16b
T	11.577	V	Feeds					6.60-	17b
T	11.595	V	Feeds					? -	8a
T	11.597	V	Feeds					6.60-	17a
T	11.653	V	Feeds					6.60-	9b
T	11.668	V	Feeds					6.60-	18
T	11.677	V	Taurus (Package for Cable-TV)	MPEG-2			Spanish		9a
T	12.149	LC	Tele Deporte	PAL	x	-	Spanish	6.60-	23
T	12.226	LC	Canal Cl~sico	PAL	x	-	Spanish	6.60-	27
T	12.303	LC	Canal 31 / Cinemania 2	PAL	-	Nag	Spanish	6.60-	31
T	12.380	LC	Telesat 5	PAL	-	-	Spanish	6.60-	35
T	12.456	LC	Tele Noticias (CET 0-15)	PAL	-	-	Spanish	6.60-	39
T	12.591	V	Canal Sur	PAL	-	-	Spanish	6.65-	11
T	12.631	V	Tele 5 Espa#a	PAL	-	-	Spanish	6.60-	12
T	12.671	H	Antena 3 TV	PAL	-	-	Spanish	6.60-	13
T	12.671	V	TV Catalunya	PAL	-	-	Catalan	6.60-	4
T	12.711	H	Canal Plus Espa#a	PAL	-	Vid	Spanish	6.60-	14