



**Ministry of Information  
and Communications  
Government of Nepal**



**International  
Telecommunication  
Union**



**Ministry of  
Communications  
Government of Israel**



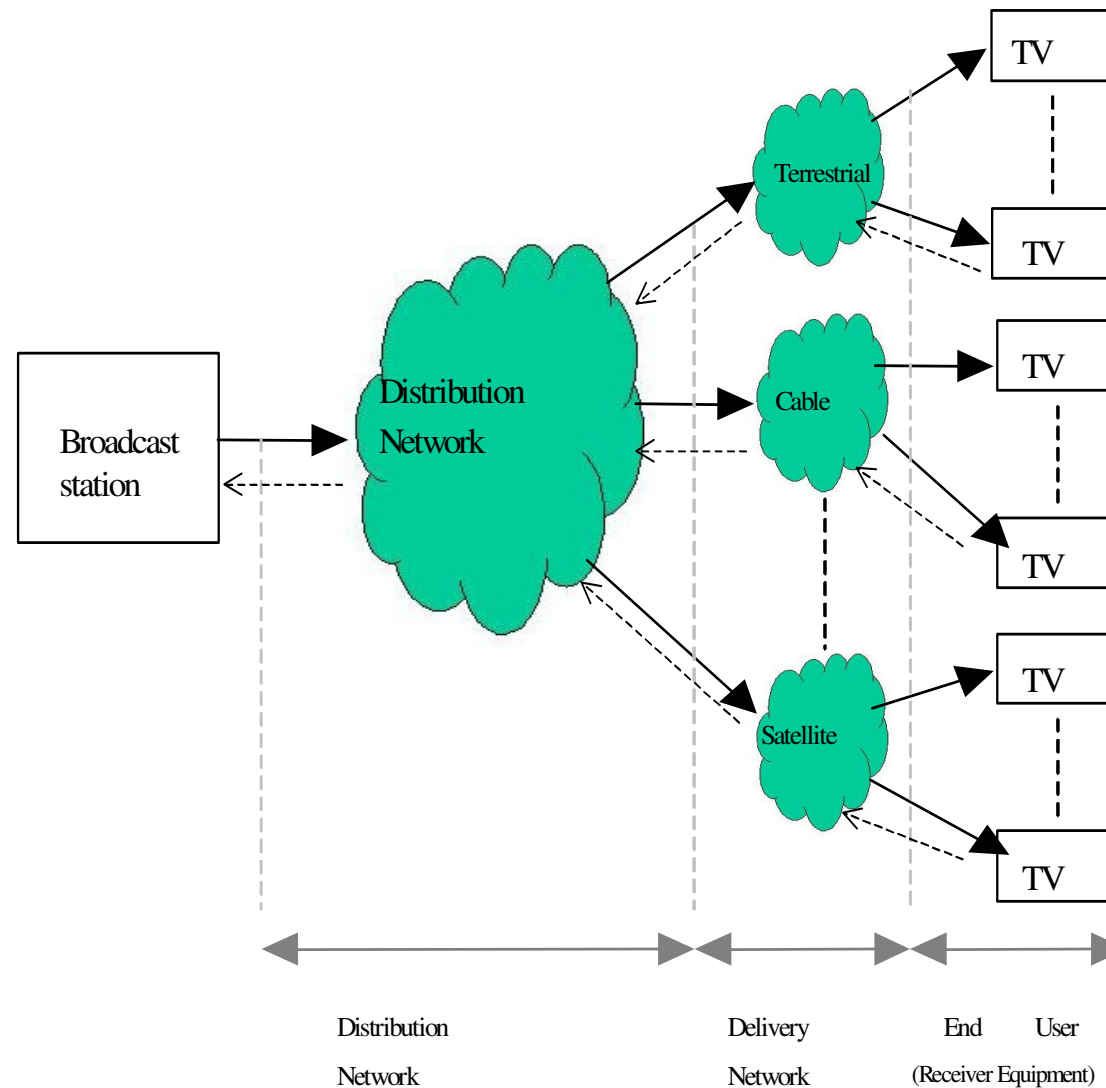
**Ministry of Foreign Affairs  
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International Cooperation  
Government of Israel**

# Broadcasting TV Services



# Broadcasting Network

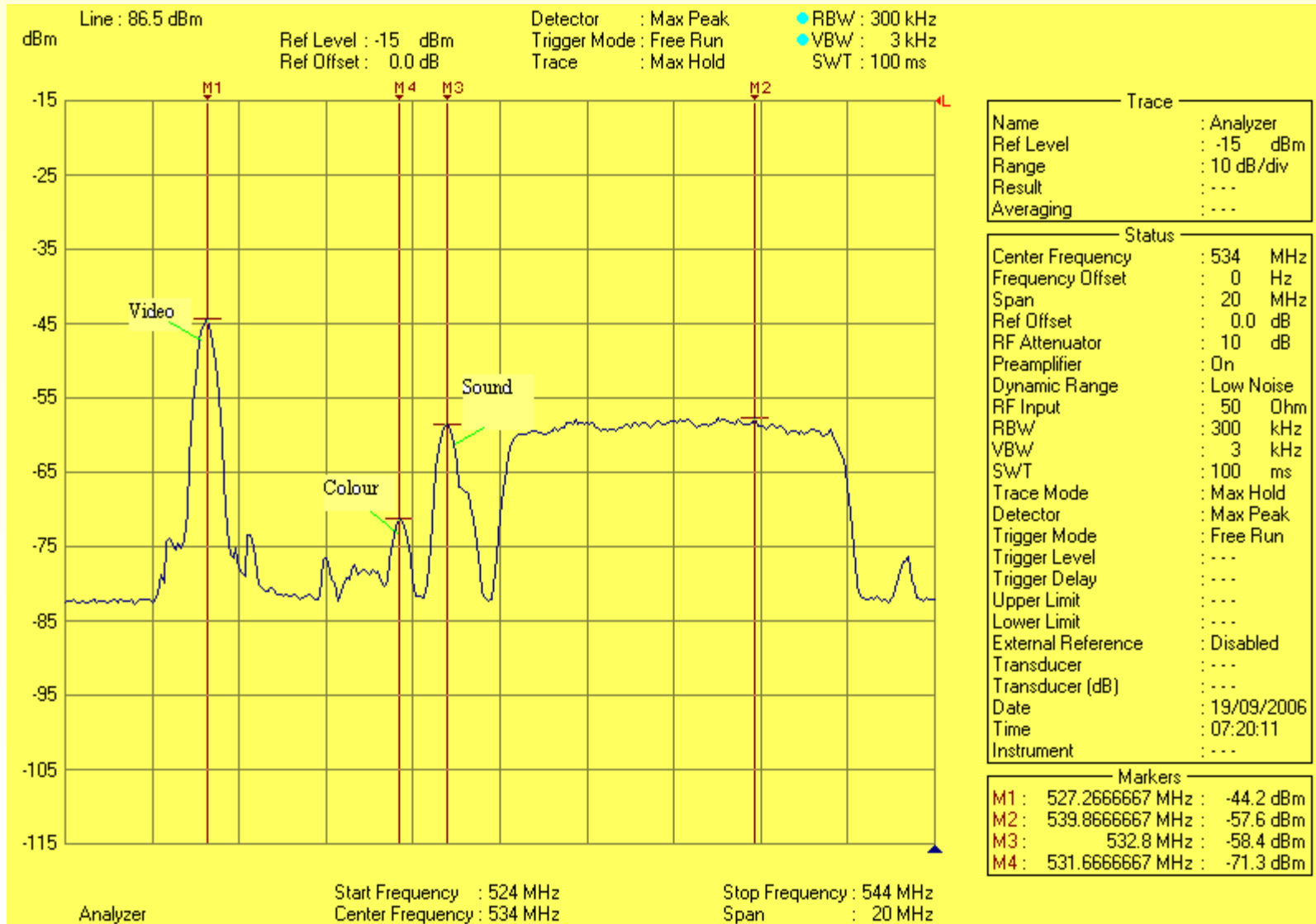
Henten A., Samarajiva R., Melody WH. 2003





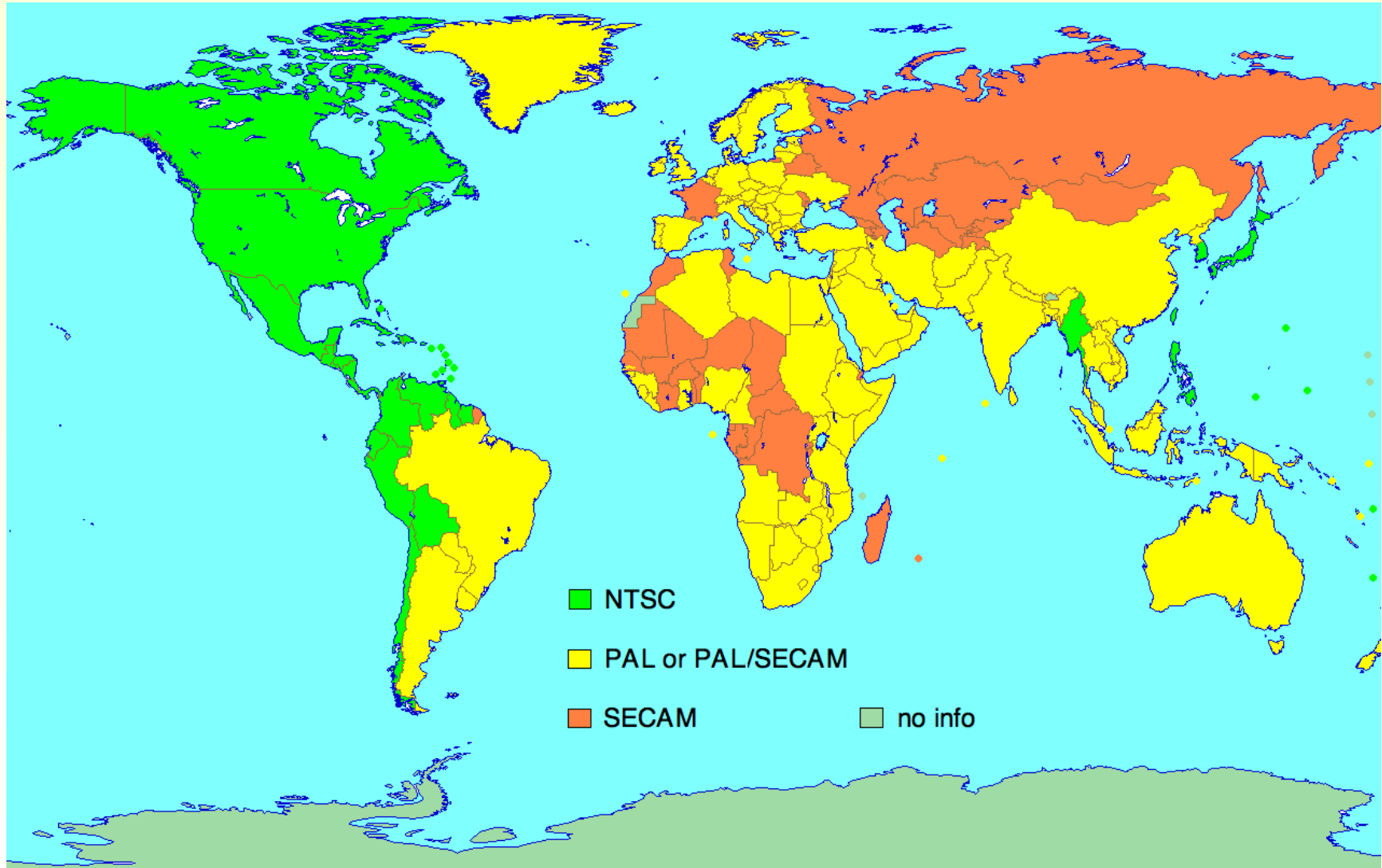
# Analogue and Digital TV figures

measured by the author from MoC office in TelAaviv ON 19 Sep. 06





# Analog TV Spread, Wikipedia

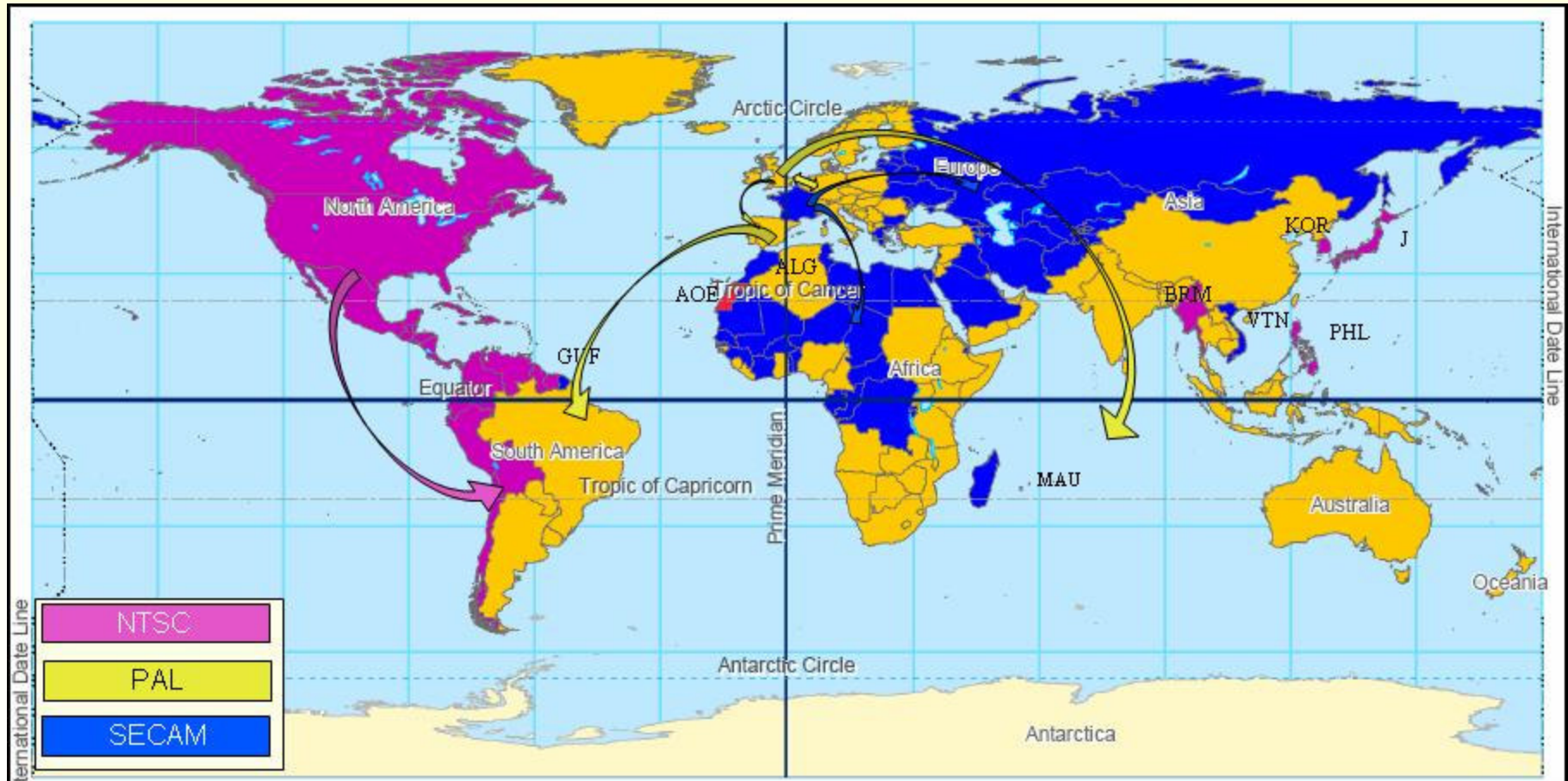




# TV colours; Exceptional Countries

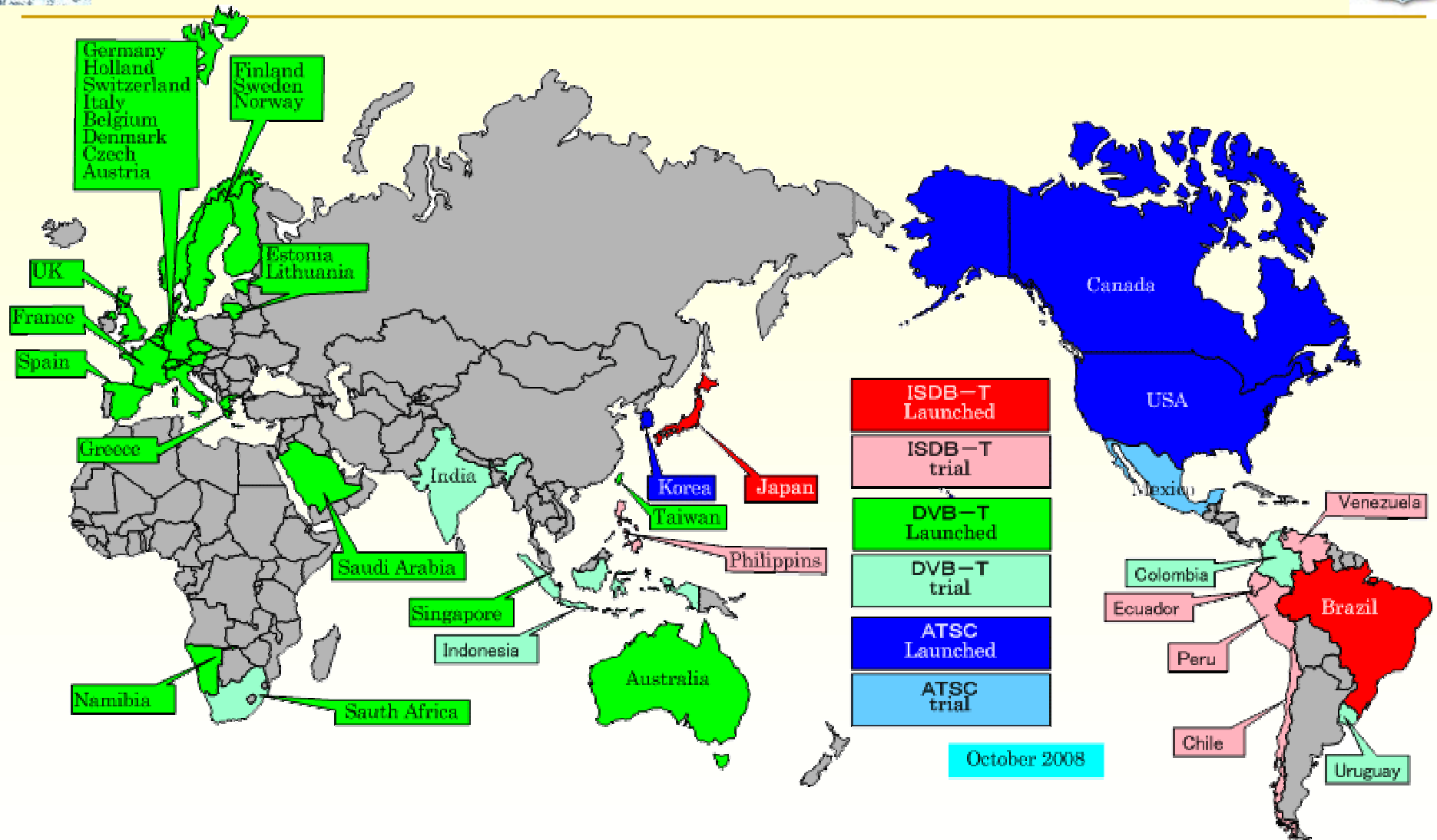


<http://www.moc.gov.il/new/documents/frequencies/MazarThesisOct08.pdf> p. 184





# Digital TV Spread Oct 2008, ISDB-T web





# Technical Parameters of the TV systems



<http://www.moc.gov.il/new/documents/frequences/MazarThesisOct08.pdf> Introduction section 5.1

The three analogue TV standards

	Lines per frame (visible lines)	Fields per second	Line Frequency (Hz)	Video Bandwidth (MHz)	Colour subcarrier (MHz)	Subcarrier Modulation	Year implemented
NTSC	525 (480)	59.94	15,734.264	4.2	3.58	Quadrature Amplitude (QAM) Frequency (FM)	1954
PAL SECAM	625 (576)	50	15,625. Only for PAL-M 15,734.264	5; 5.5; 6	4.43; PAL-M 3.58, PAL-N 3.58		1967

The Three digital TV Standards

	Reception speed	Scanning Lines	Image size Pixels	Modulation
ATSC	Portable	1125	1920x1080	Single 8-VSB carrier codes
DVB-T	< 90 km/h, for 8k carriers <180 km/h, 2k	Flexible		OFDM



# TV Standards; ITU report AN-DIG



<u>Standard</u>	<u>Channels</u>	<u>Band</u>	<u>Modulation</u>	<u>Applicable standards</u>
ATSC	6 MHz	UHF/VHF	8-VSB	A/52,A/53, A/65, A/153
ChinaDTV	8 MHz	UHF/VHF	OFDM	GB 20600-2006
DVB-T	6, 7 and 8 MHz	UHF/VHF	OFDM	EN 300 744
DVB-H	5, 6, 7 and 8 MHz	UHF/VHF	OFDM	EN 302 304
ISDB-T	6, 7 and 8 MHz	UHF/VHF	Segmented OFDM	ARIB STD-B31
T-DMB	1.75 MHz	VHF/1.5GHz	OFDM	ETSI TS 102 427 and ETSI TS 102 428
FLO	5, 6, 7 and 8 MHz	UHF/VHF	OFDM	TIA 1099
ISDB-T <sub>SB</sub>	0.43, 0.50, 0.57 MHz 1.29, 1.50, 1.71 MHz	UHF/VHF	Segmented OFDM	ARIB STD-B29