

# Chronological Launch of Communications and Broadcasting Satellites and its related matters in early time

YEAR	WORLD	JAPAN	NHK(Japan Broadcasting Corporation)
1957	Launch of Sptonik (Soviet)		
1958	Establishment of NASA (USA)		
1960	Launch of Passive CSat "Echo-1"(USA)		
1962	Launch of First Active CSat "TELSTAR-1"(USA)		
	Launch of CSat "RELAY-1"(USA)		
1963	Establishment of COMSAT	The first trans Pacific transmission of TV between USA and Japan through RELAY-	
	Launch of CSat SYNCOM-1"(USA)		
	Launch of CSat "TELSTAR-2"(USA)		
1964	Launch of CSat "RELAY-2"(USA)	Transmission of TV of Tokyo Olympic games to the World through SYNCOM-3	
	Launch of CSat "SYNCOM-3"(USA)		
1965	Launch of Comerical CSat "INTELSAT-1"(USA)		Started study of the broadcasting satellite
1966			Started the attenuation measurement of 12GHz wave by rain
1968			Started system study of the satellite broadcasting
1969		Establishment of NASDA	Completion of the small satellites
1970		Launch of the first Sat(Ohsumi) in Japan	Started study of the allotment of frequebcies and orbital positions
1971	WARC-ST(ITU)		
1972	Launch of CSat "Telsat-A"(Canada)		Invented the low noise low cost home receiver for broadcasting satellite at 12GHz. Requested launch of the broadcasting satellite to Japanese Government
1974	Launch of CSat "WESTAR-1"		
	Launch of "ATS-6"(USA)		
1975	Experimental Transmission of TV to Village by ATS-6(India)		
1976	Launch of CTS(USA & Canada)		
1977	WARC-BS(ITU)	Launch of CS-1	
1978		Launch of Experimenntal BS-1	Experiments of the satellite broadcasting
1979	Launch of Ekuran(Soviet)		
1982	Launch of "INSAT"(India)		
1984		Launch of BS-2a (The frst practical broadcasting satellite in the world)	Started the practical satellite broadcasting
1986		Launch of BS-2b	
1988	Launch of BSat "TDF"(France)		
	Launch of BSat "ASTRA"(Luxembourg)		
1989	Launch of BSat "TV-SAT"(Germany)		
	Launch of BSat "Marconi"(England)		
1990	Launch of BSat "TDF-2"(France)	Launch of BS-3a	
	Launch of BSat "Marconi-2"(England)		
1991		Launch of BS-3b	

\*Csat=Communication Satellite \*BSat=Broadcasting Satellite \*NASDA=National Spce Development Agency of Japan

\*CTS=Communication Technology Satellite \*WARC=World Administrutive Radio Conference \*ST=Space Telecommunication \*BS=Broadcasting Satellite