

General Assembly

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COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE

INFORMATION FURNISHED IN CONFORMITY WITH GENERAL ASSEMBLY RESOLUTION 1721 B (XVI) BY STATES LAUNCHING OBJECTS INTO ORBIT OR BEYOND

Note verbale dated 26 November 1996 from the Permanent Mission of Italy to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Italy to the United Nations (Vienna) presents its compliments to the Secretary-General and has the honour to transmit, in accordance with resolution 1721 B (XVI), paragraph 1, of 20 December 1961, information concerning the Satellite per Astronomia (SAX), launched in April 1996, and ITALSAT F2, launched in August 1996 (see annex).

Annex

REGISTRATION DATA FOR ITALIAN SPACE LAUNCHES*

Name of satellite:	SAX (Satellite per Astronomia a raggi X)	
Date and place of launch:	30 April 1996, Cape Canaveral, Florida, United States of America	
Basic orbital parameters:	Nodal Period: Inclination: Apogee: Perigee:	96.3 minutes 3.95 degrees 603 kilometres 583 kilometres
Launch vehicle:	Atlas G-Centaur	
Launching State and organization: Italy - A	SI (Italian Space Agency) NASA (National Aeronautical and Space Administration of the United States of America)	
General function:	 SAX is an Italian/Dutch celestial X-ray monitoring telescope which will have the capability of observing sources over more than three orders of energy - from 0.1 to 200 keV - with a relatively large area, a good energy resolution, associated with imaging capabilities (resolution of about 1 arc-minute) in the range of 0.1 to 10 keV. It carries a 64 MB tape recorder to unload data from earth orbit to Malindi, Kenya, via a geostationary INTELSAT spacecraft. This will allow a prompt operation and control of the satellite, particularly important in the cases of targets of opportunity (TOO) that need timely follow-up observations. During each orbit, up to 450 Mbits of data will be stored onboard and relayed to the ground during station passage. The average data rate available to instruments will be about 70 kbit/s, but peak rates up to 100 kbit/s can be achieved. SAX will provide significant and unique contributions in many X-ray astronomy areas by observing: Compact galactic sources Active galactic nuclei Clusters of galaxies Supernovae remnants Normal galaxies Stars 	
Characteristics of satellite:	Mass at launch: Height: Width (deployed): Stabilization: EIRP: Operational lifetime:	1,400 kg 3 metres 9 metres 3-axis 1 dbW 2 years (nominal) 4 years (expected)

The registration data are reproduced in the form in which they were received.

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Name of satellite:	ITALSAT F2	ITALSAT F2		
Date and place of launch:	8 August 1996, Guyan	8 August 1996, Guyana Space Center - Kourou, French Guyana		
Basic orbital parameters: (for geostationary 35,898 kilometres	ary satellite) Nodal Period: Inclination: Apogee height:	1,439 minutes ± 0.1 degrees		
	Perigee height: Geographic longitude: Longitude tolerance:	35,788 kilometres 16.4 degrees East (nominal) ± 0.1 degrees		
Launch vehicle:	Ariane 44L - V90			
Launching State and organization: Italy	- ASI (Italian Space Agency Arianespace	y/TELECOM ITALIA)		
Satellite characteristics:	satellite that provides	ITALSAT second flight unit (F2) is a body-stabilized geostation satellite that provides operational communications for dome services in Ka-band and European services in Ku- and L-bands.		
	Mass at launch: Propulsion: Stabilization: Operational lifetime:	1,990 kg Bipropellant Three-axis Not less than 7.5 years		
	The satellite uses S-band its lifetime.	The satellite uses S-band for telemetry, command and tracking during its lifetime.		
		,200 MHz and 2,290 MHz ,025 MHz and 2,110 MHz		
Payloads: The s	satellite has three communic	cations payloads:		
	covering Italian territ	Multibeam payload: It consists of six operative transponders covering Italian territory with six partially overlapped spots. The payload uses the Ka-band.		
	-	7,6210 MHz and 29,473 MHz 8,820 MHz and 20,070 MHz		
	National payload and telemetry beacon: This consists of three operational transponders with domestic coverage. Both use the Kaband.			
	Downlink: 19	9,517 MHz and 29,977 MHz 9,720 MHz and 20,180 MHz 8,685 MHz		

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> European Mobile Service payload (EMS): The EMS payload provides coverage over western and eastern Europe, most of North Africa and the Middle East. It consists of two operative transponders, one for the forward link from fixed Earth stations (FES) to mobile terminals and the other for the return link from mobile terminals to FES. The feeder link between FES and the satellite is in Ku-band, while the link between mobile terminals and satellite is in L-band.

Uplink:	Ku: 14,236 MHz and 14,250 MHz
	L: 1,631.5 MHz and 1,660.5 MHz
Downlink:	Ku: 12,736 MHz and 12,750 MHz
	L: 1,530 MHz and 1,559 MHz