

INSAT-1B Mission

30 August, 1983

THE MISSION

The Indian National Satellite (INSAT-1B) on-board the Shuttle (PAM-D) with Challenger F2, USA, lifted-off on August 30, 1983. INSAT-1 series, the first generation of INSAT system comprising of INSAT-1A, INSAT-1B, INSAT-1C and INSAT-1D was a series of Multipurpose Geostationary Satellites.



Delta-3910 PAM-D

INSAT-1B

THE SATELLITE

INSAT-1B, the second in the INSAT-1 series was the first operational satellite in the Indian National Satellite System (INSAT) series and provided telecommunication, TV broadcasting, radio networking, weather observation and forecasting services.

It was not until mid-September that Ford and Indian controllers succeeded in deploying its solar array. By then it had been stationed at 74° E in place of INSAT-1A. Full operational capability was achieved in October 1983. It continued to operate into 1990 with all its 4375 two-way voice or equivalent circuits in use. Around 36,000 Earth images were returned.

SPECIFICATIONS

Weight	1152 kg
Power	1000 W
Stabilization	Momentum biased 3-axis stabilization
Type of Satellite	Communication
Payloads	<ul style="list-style-type: none">• 12 C-band Transponders• 2 S-band Transponders & VHRR
Mission Life	7 Years

