

ISRO DCS status report

Data Relay Transponder (DRT) payload is currently available on 3 Indian satellites – INSAT-3D, INSAT-3DR and GSAT-17, which provides uplink facility at 402 MHz with global coverage and downlink at 4503 MHz with coverage over India. DRT are supporting 125 PRBS, 560 AWS and 1350 ARGs of Indian Meteorological Departments, 592 terminals of Central Water Commission, 95 terminals of Snow and Avalanche Study Establishment, 83 terminals of the state of Andhra Pradesh, 10 ARGs of TIFC, and ~1187 AWS of ISRO. ISRO AWS provide half-hourly measurements of surface temperature, pressure, humidity, wind speed and direction, precipitation and sunshine. ISRO's present AWS are uplinked to DRT, but additional capability of transmitting data through GSM/GPRS is under consideration. At present 30 of these AWS are taken up for GSM/GPRS compatibility for data transfer. IMD is planning to add 550 AWSs and 2000 ARGs, and CWC is planning to add about 2000 terminals of water resource monitoring