



# Info-Electronics Systems Inc.

## *Your Experts in Hydro-Meteorology*

ISO 9001:2015 Registered Quality System



### THE COMPANY & THE TEAM

Incorporated in 1981, **Info-Electronics Systems Inc. (IES)** is an engineering, integration and project management company. Working in the field of computer-based technologies, IES develops systems and application software for Meteorology, Hydrology, Remote Sensing, Environmental Monitoring, Communications and Instrumentation. With its headquarters in Montreal, Canada, IES has an additional office in New Delhi, India. We have a strong Process Management Methodology as our Quality Management System (QMS) is registered as being in conformity with ISO 9001:2015.

IES' success can be attributed to our experienced and motivated staff, the state-of-the-art technology we utilize and develop, and our dedication to Research & Development and Quality Assurance.

### IES EXPERTISE

#### The Technology Domain

Technology-based software development in:

- Meteorology and Hydrology
- Remote Sensing
- Image Processing
- Environmental Monitoring
- Terrestrial & Satellite based Communications
- Telemetry
- Process Control & Industrial Automation
- eBusiness, Multimedia & Interactive Training

#### The Methodology & Services Domain

Employment of state-of-the-art techniques in:

- Project Management
- System Development
- Independent Verification & Validation
- Quality Assurance
- Configuration Management
- Training & Support

### IES CAPABILITIES IN HYDRO-METEOROLOGY

IES' Hydro-Meteorology Division draws its strength from the rich and vast experience initiated at IES Inc. Canada through the development of various systems for top-class meteorological organizations, including Environment Canada/Meteorological and other international Meteorological/Aviation Departments.

IES provides end-to-end solutions in this field, where the systems consist of data collection (in-situ, as well as remotely-sensed), data backhauling to a central location, processing, and redistribution.

Some of the areas in which IES has been involved include:

- Provision of Ground Station for Satellite Data Reception and Processing
- Provision of equipment (RTU, sensors and satellite communication) for hydro-meteorological data collection and backhauling to the central location for processing
- Establishing turnkey hydro-meteorological data collection networks for Flood Forecasting, Avalanche Forecasting, Weather Forecasting and Cyclone Forecasting
- Meteorological data distribution/broadcast via satellite and via terrestrial networks

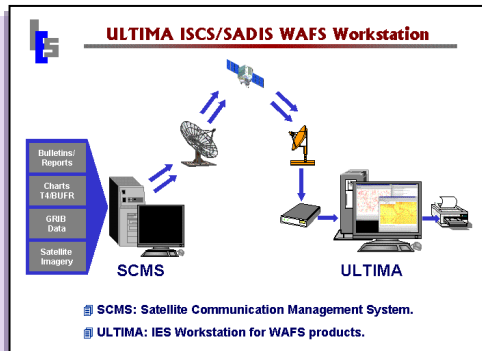
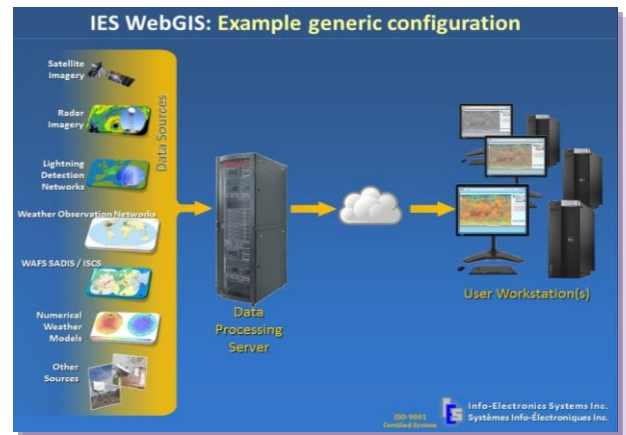


## IES ACHIEVEMENTS – PROJECT EXAMPLES

IES has proven itself in the field of Hydro-Meteorology with numerous accomplishments. We are responsible for the project management, component development, and technical design of some major international projects.

### WebGIS

**WebGIS** is a Web-based meteorological workstation using client-server and zero footprint technology. The system presents information in a completely geo-referenced, customizable format and allows the user to access, process, display and manage numerous types of data, including GRIB, alphanumeric, satellite, radar imagery and lightning data, among others. There are two versions of **WebGIS: Met-WebGIS** for weather briefers and forecasters and **WAFS-WebGIS** for the aviation industry. Our clients for **WAFS-WebGIS** include Cuba and Somalia.

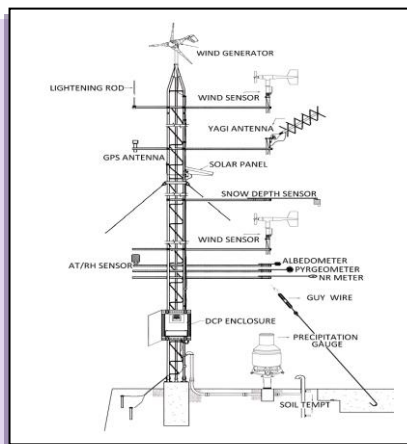


### ULTIMA<sup>IES</sup> (legacy)

**ULTIMA<sup>IES</sup>** was a modular and powerful SADIS/ISCS (WAFS) reception and processing system successfully used for many years in Cuba, Venezuela, Brazil, Hong Kong, Canada, Kenya, the U.S. and Bahrain. It received and handled bulletins, charts (T4, BUFR), GRIB and imagery data. It performed all the functionalities required for a Weather Briefing Workstation, including querying meteorological database and providing tools for weather analysis and generation of significant weather charts.

### Environmental Sensing Capability – Polar Epsilon Project

This project was implemented for the Canadian Department of National Defence (DND), together with our partner Global Imaging. It involved the provision and installation of two MODIS Satellite Earth Reception Systems and related equipment and services, plus ongoing IES maintenance and support services to DND.

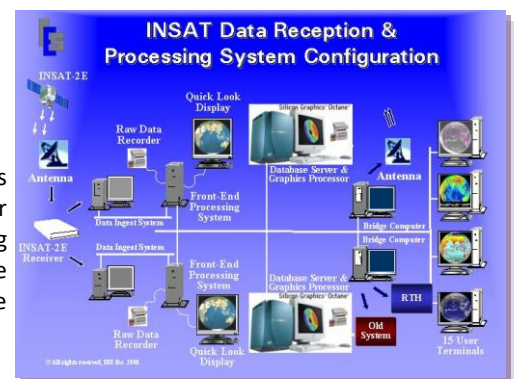


### Snow and Avalanche Study Weather Stations Network

This project involved the supply of twenty Automatic Weather Stations (AWS) with communications through INSAT and ARGOS satellites for the Snow and Avalanche Study Establishment (SASE) in India. The AWSs were installed in such demanding settings as Antarctica and the Himalayas, and included sensors for measuring Air Temperature, Relative Humidity, Wind Speed and Direction, Pressure, Albedo, Net and Direct Solar Radiation, Snow Depth, Precipitation, Soil Temperature, and more.

### The INSAT-2E Meteorological Data Processing System (IMDPS)

Development of a system called IMDPS, to collect and process imagery data from India's INSAT-2E satellite. Imagery is used by the India Meteorological Department for weather forecasting. The system includes Data Ingestion System (DIS), Front-End Processing System (FEPS), Database Server and Graphics Processing System (DSGP) and interface with the Regional Telecommunications Hub (RTH). All systems are duplicated to provide redundancy.



**Info-Electronics Systems Inc.**

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