



# Info-Electronics Systems Inc.

Your Hydro-Meteorology Solutions Experts

## 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. In cooperation with our manufacturing partner companies, we provide premium, from cost-efficient equipment to the most advanced end-to-end solutions and scientific equipment to our clients around the world. IES has headquarters in Montreal, Canada, and an additional office in Uttar Pradesh, India, IESI. We have a strong Process Management Methodology as our Quality Management System (QMS) is registered as conforming with **ISO 9001:2015**. From cost-efficient equipment to the most advanced etc...

## IES EXPERTISE

### Technology

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

### Methodology & Services

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

- Project Management
- System Development
- Systems Integration
- 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;

- 1. Provision of Ground Station for Satellite Data Reception and Processing**
- 2. Provision of equipment (Remote Terminal Units, sensors and satellite communication) for hydro-meteorological data collection and backhauling to the central location for processing**
- 3. Establishing turnkey hydro-meteorological data collection networks for;**
  - *Flood Forecasting*
  - *Avalanche Forecasting*
  - *Weather Forecasting*
  - *Cyclone Forecasting*
- 4. Meteorological data distribution/broadcast via satellite and terrestrial networks.**



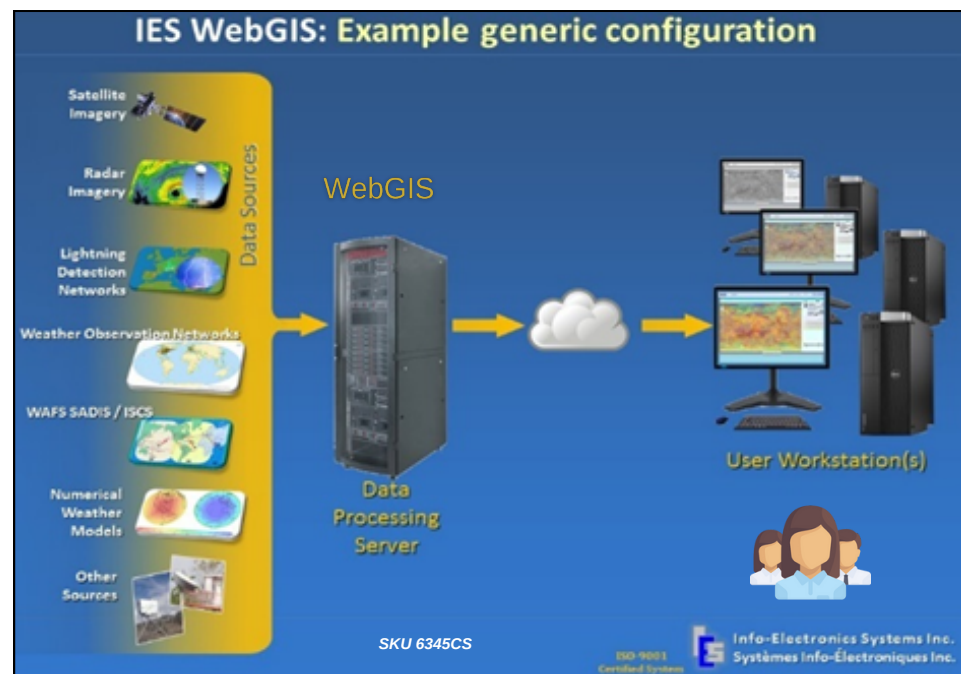
# IES ACHIEVEMENTS – PROJECT EXAMPLES

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.

## 1. System Development - WebGIS

The successor for ULTIMA IES, our 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, Central America, and Somalia in Eastern, Africa.

### IES WebGIS: Data Processing Server



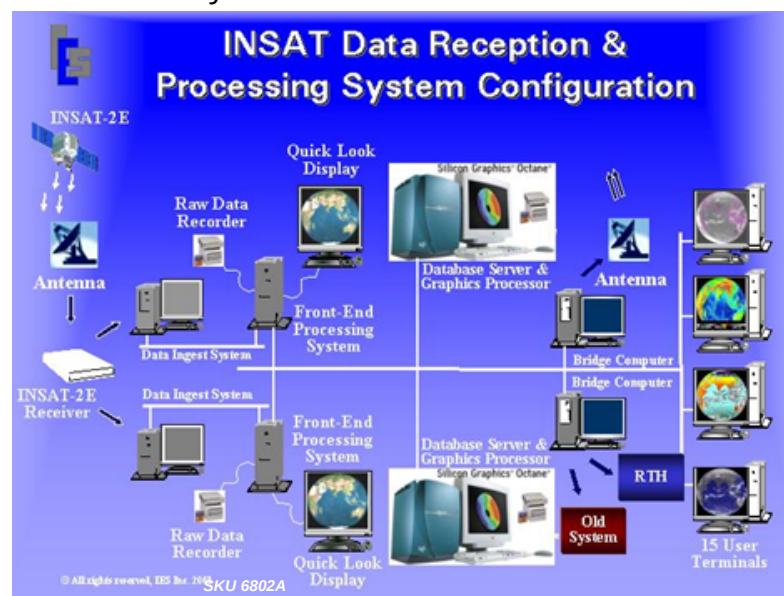
## 2. Environmental Sensing Capability - Polar Epsilon Project

This project was implemented for the **Canadian Department of National Defence (DND)**, together with IES 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.



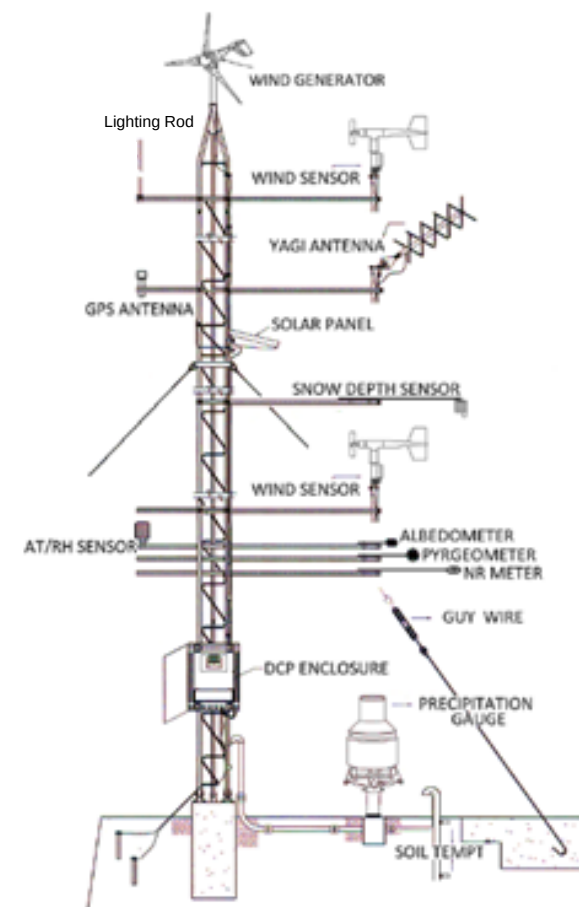
## 3. Meteorological Data Processing System -IMDPS

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 a 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.



## 4. Weather Stations Network - Snow and Avalanche Study

This project involved the supply of twenty Automatic Weather Stations (AWS) with *Microcom Design*, datalogger/transmitters and redundant autonomous power sources for the **Snow and Avalanche Study Establishment (SASE)** in India. All stations were installed in the Himalayas and included sensors from our partner for measuring Air Temperature and relative Humidity (AT/RH Sensor). Other parameters included Wind Speed and Direction, Air Pressure, reflecting radiation, Net and Direct Solar Radiation, Snow Depth, Precipitation, Soil Temperature, and infrared radiation. Data is being communicated through INSAT and ARGOS satellite systems.



To learn more: [info-electronics.com](http://info-electronics.com)

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Met-WebGIS

