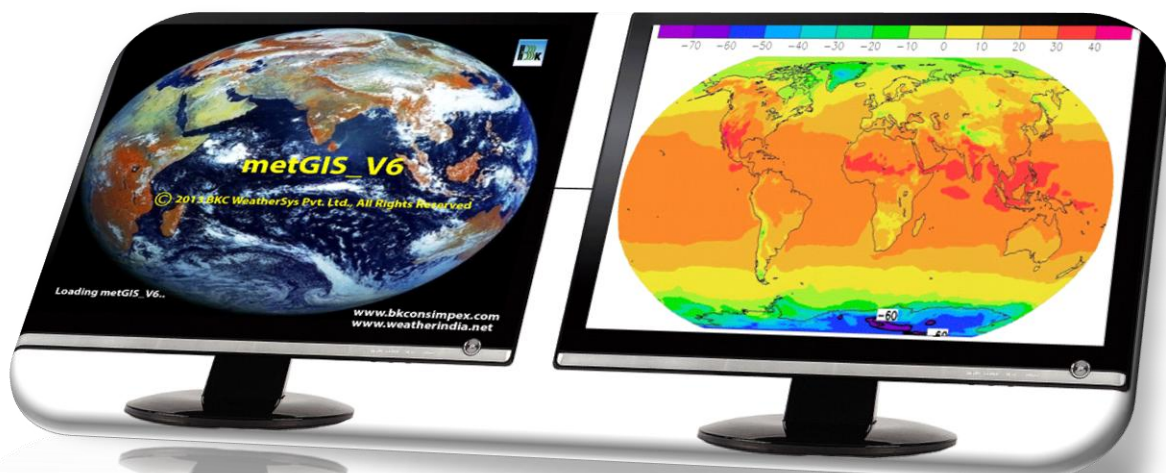


metGIS_V6

India's First Forecaster Workstation



BKC WeatherSys Pvt. Ltd.

An ISO 9001:2008 Certified Company

Formerly known as BK Consimpex

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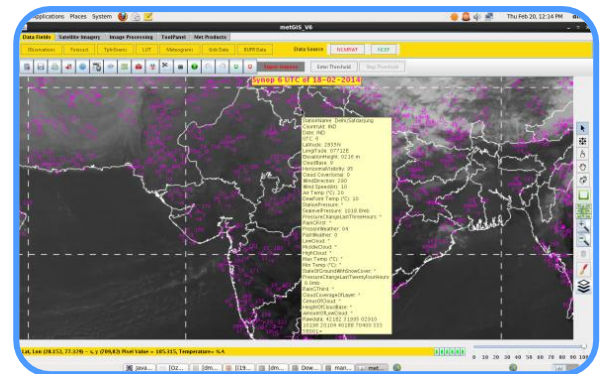
A Forecasters' Workstation: metGIS_V6

The BKC WeatherSys Forecaster Workstation has been designed to simplify a meteorologist's workflow. Developed in-house over 10 years with

inputs on user requirements from India Meteorological Department and the Indian Air Force and Indian Navy, this Forecaster Workstation features state of the art data collection, visualization, and analysis tools.

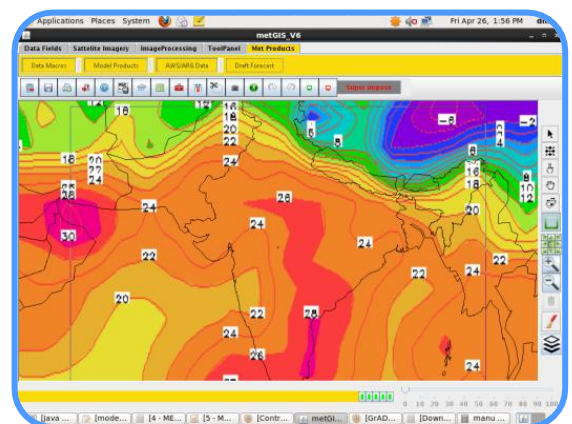
System Capabilities

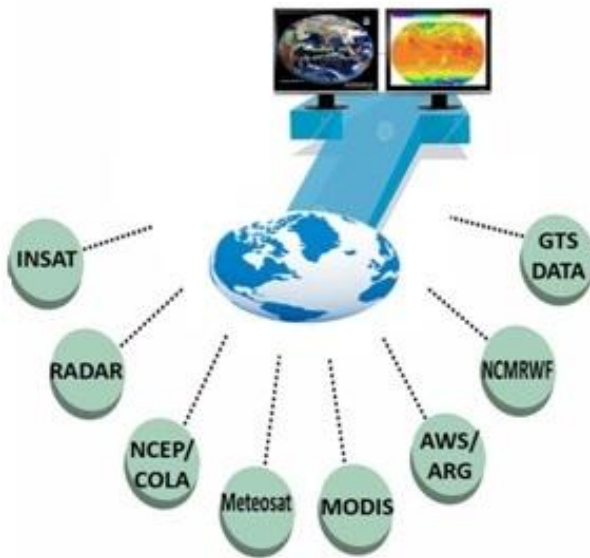
- Open software architecture for rapid customization.
- Automated downloading and decoding of data in multiple formats.
 - In-built GIS map display.
 - User-friendly graphic user interface.
 - Combination of images and data in layers.
 - Configurable to any message switch, including Ethernet, FTP and Internet allowing access to multiple data sources.



Key Features

- Automatic reception and plotting of GTS data, and IMD AWS & ARG data
- Automatic reception and geo-referencing of satellite images from various satellites including INSAT 3D with image processing (for e.g., brightness, contrast, colour editing, cloud contouring & extraction) and filtering tools.
- Auto-generation of 7 day forecasts that can be edited
- Auto-generation of editable reports in pdf format
- Vertical cross-section and time-section charts.
- Drawing tools for drawing fronts, isolines & weather symbols.
- Macro commands for data and images.
- Projection of GIS in different forms
- 100% in-house developed software with 24x7 day support.





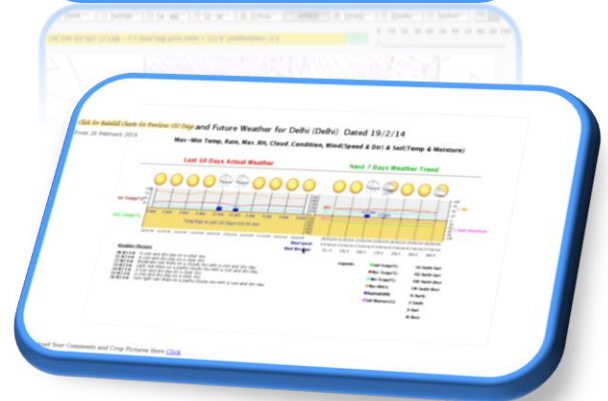
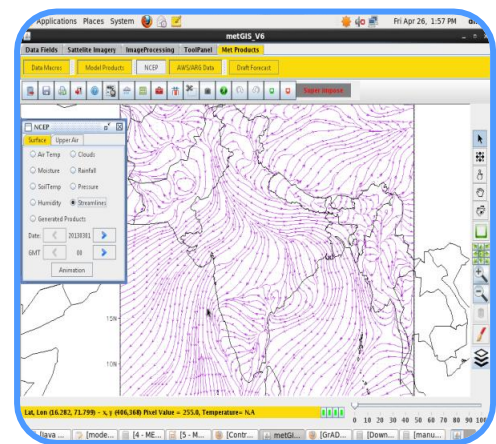
Data Sources

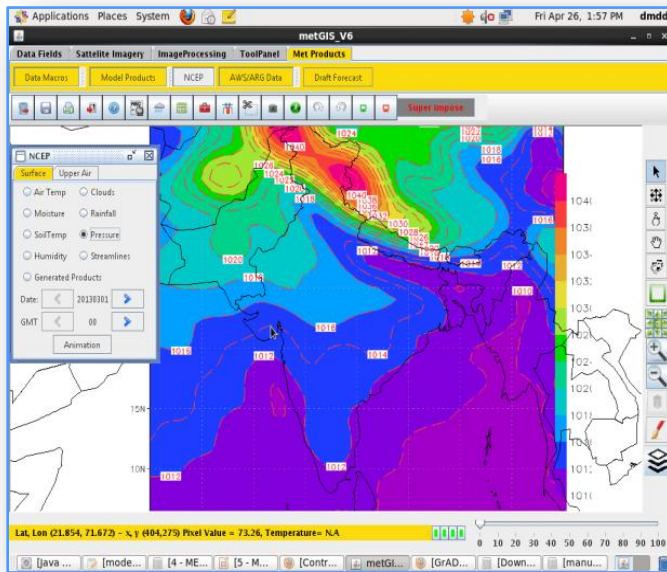
Data sources include but are not limited to:

- GTS data consisting of Synop, METARS, TAFS, Upper Air, Ship, and Buoys.
- AWS/ARG data from India.
- NCEP and NCMRWF forecasts
- HDF 4 & 5 data.
- Satellite imagery (Kalpana, INSAT 3D, METEOSAT-full globe, MODIS), IR, Visible, and Colour Composite sector images.
- Radar images and reflectivity from Indian region.
- Grib 1 & 2 data decoding, plotting, contouring.

Forecasting Tools

- **Data Plotting & Analysis:** Surface/Upper Air, Isolines (with on screen modifications), colour shading, objective analysis, time series and overlay with satellite images.
- **Display & Analysis** of all Forecast parameters from NWP Models using GRADS software (Wind, Pressure, Rainfall, Temperature and Relative Humidity).
- Production of Forecast charts (surface and upper air).
- Meteograms/Graphical charts of weather forecast parameters for next 7 days.
- Facility of overlays with satellite images and layering of data.
- Data monitoring at critical values and visual alerts.
- Plotted METAR sheet and decoded TAF.
- Production of Radar images {echo [max (z) product]}.





- T-Phigram plotting and analysis of actual and forecast UA data.
- Vertical Cross Section and Vertical Time Section charts.
- Production of forecast images (clouds, rainfall, temperature, RH, streamlines) with animation facility.
- Creation of macros for data and image commands for repetitive routine generation of charts and images.
- On screen forecast analysis using comprehensive range of meteorological symbols.
- Integrated shape files.
- Auto generation of Power Point presentations, bulletins and draft forecasts in pdf formats.
- Viewing of products on multiple monitors.

About BKC WeatherSys

BKC WeatherSys is dedicated to providing integrated solutions for meteorology. Founded over 20 years ago, our group is comprised of experienced meteorologists & a software team dedicated to developing meteorology applications. Some of our key projects are:

- HRIT/LRIT transmission/reception stations (nearly 100 stations) all over India and neighboring countries.
- Satellite Imagery Reception and Video Display System (SIRAVDS) for 53 IAF stations.
- AMSS systems at 4 major airports (Kolkata, Mumbai, Delhi and Chennai) in India.
- An Online Flight Briefing System operational at Delhi and Chennai airports.