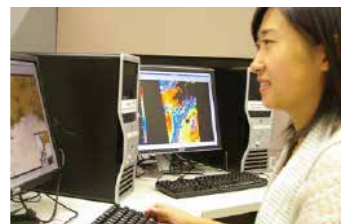# PROTEUS

SATELLITE IMAGE ANALYSIS & VISUALIZATION
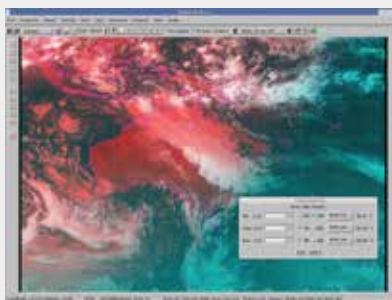
Multi-platform software application, designed to display and analyze environmental satellite imagery.


SOFTWARE

PERFORMANCE SPECIFICATIONS

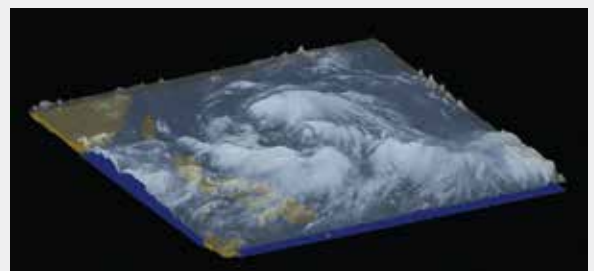| FUNCTION	NOTES
Cursor Display	Pixel value, physical value (temp or albedo) and lat/lon of the cursor position are displayed.
Configuration Selection	Setup files determine parameters of automatic image generation.
Simultaneous Window Displays	User can select up to four image simultaneously opened display windows.
Generation of MPEG2 or AVI	Animation loops can be saved as MPEG2 or AVI files, with user specified speed and image quality. These files can be used to output directly to PAL/NTSC format (for display on a monitor) if video output card is available
Color LUTs	Selection of 10 pre-defined lookup tables for met applications. Up to 50 user defined tables.
Overlays	Inbuilt Overlays: Gridlines Political boundaries and coastlines Latitude Longitude labels User can define Overlays Forecast MODEL GRIB and Topographic Overlays
Annotation	Automatic annotation of satellite name, data and time to images and animations.
Movie Loop Display	Up to 48 image animation loops can be generated from: a) time span b) last picture and total number c) mouse highlighting from selection Animation loop can be automatically updated with the latest satellite image. Full control of the animation loop: (start/stop, dwell, speed, direction, end delay)"
Image Combination	Arithmetic combination of images can be used to generate new images. Operations can be on pixel or physical values
Generation Of Standard Image Formats	Images can be saved as PNG, BMP, TIFF, PS, JPEG, GEOTIFF
Scatter Plot	
Skew-T	Tephigrams from NOAA & METOP Sounders
AODT	Automated Dvorak Technique capability
Histogram	2D & 3D Histograms
3D Clouds	3D rendering of clouds from Geostationary satellites

DISPLAY EXAMPLES

Example RGB (MTSAT Red: VIS, Green: IR1, Blue:IR2)
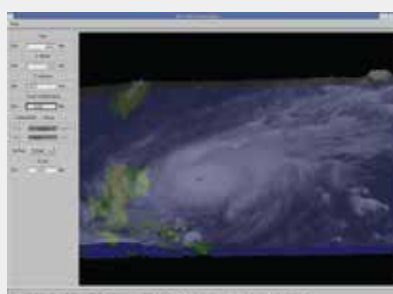
MTSAT IR1 : 3D Animation TC Chebi approaching the Philippines

3D Cloud Renderings