

ITT Corporation  
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**ITT**

Our mission is to provide a wide range of innovative remote sensing and GPS navigation solutions to customers in the Department of Defense, Intelligence, Earth and Space Science, and Commercial Aerospace to help them visualize and understand critical events happening – on earth, in the air or in space – in time to take effective action.

Image Credits: NOAA/NASA/Goddard Space Flight Center/  
Scientific Visualization Center

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Climate and Environmental Monitoring

Sensors | Systems | Subsystems | Software

# Proven choices for a changing world.

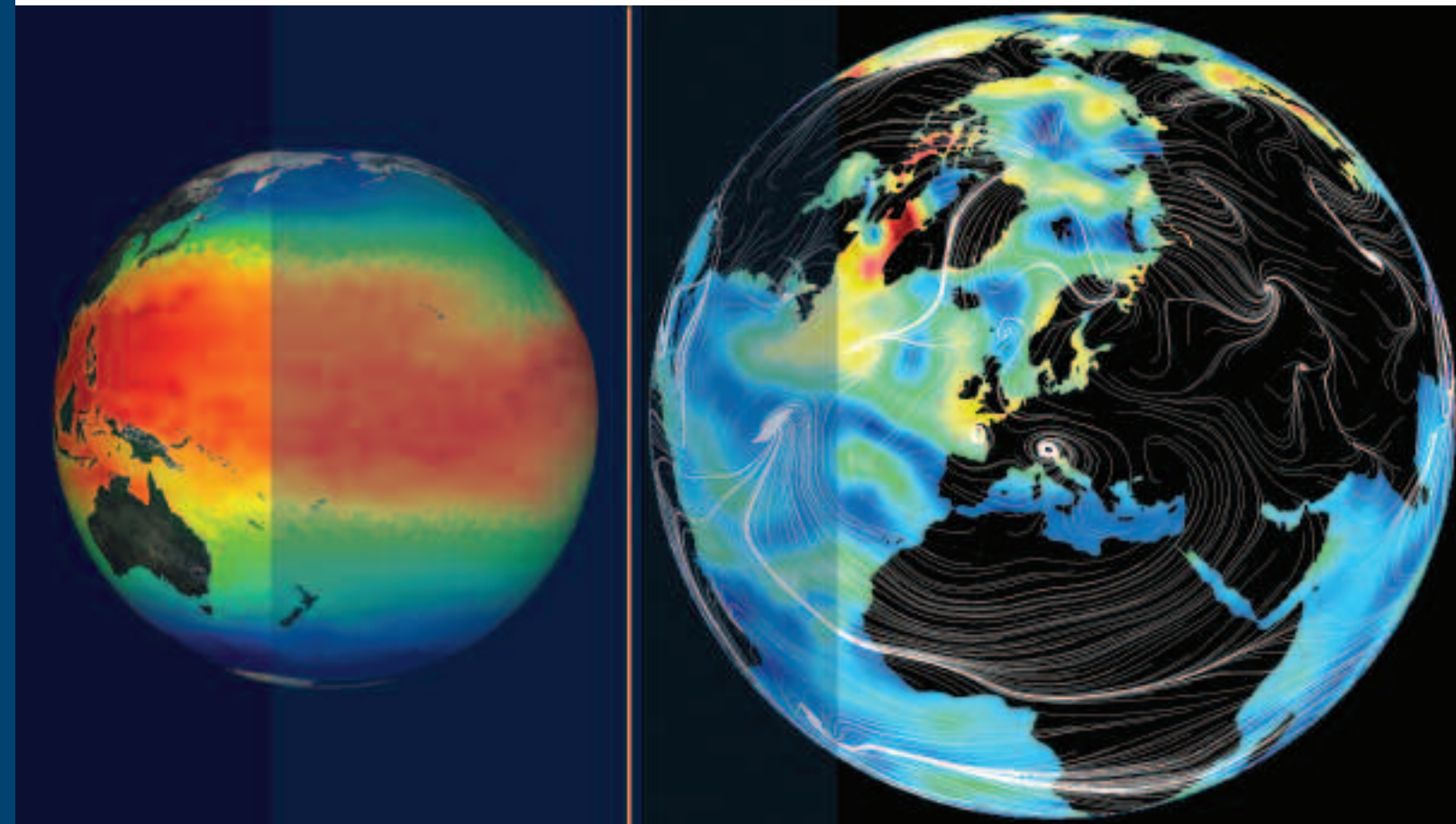


Image depicting ocean and atmospheric data generated by IDL, ITT's computing environment for data visualization and analysis.

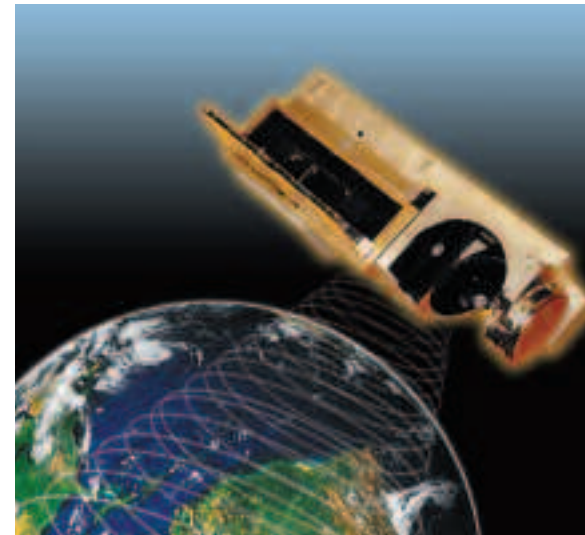
*Engineered for life*

# Climate and Environmental Monitoring

ITT: Working to make our planet more livable.

For over 40 years, ITT has been a world leader in advanced climate and environmental monitoring systems. Our end-to-end solutions allow you to anticipate nature's next move, whether it's in the next hour, the next year, or the next century.

ITT's proven-reliable sensors, systems, subsystems and software are used to capture, process, visualize and analyze data quickly and accurately. This makes it possible for commercial and government customers to monitor and predict weather and climate change, and to conduct scientific research into other areas. This is vital to the formation of national policy, to protect and save lives and property, to ensure efficient and effective commerce and economic growth, and to create a more livable environment.



Data collected by ITT's Advanced Very High Resolution Radiometers (AVHRR) supports operational weather forecasting and environmental monitoring while proving a multi-decade baseline for climate studies.

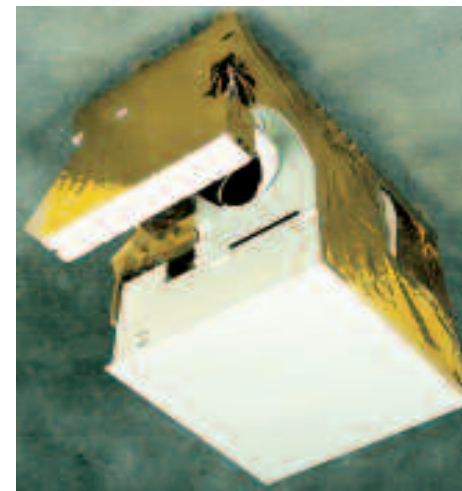
## Sensors, Systems and Subsystems

ITT develops and produces active and passive space-borne sensors, systems and subsystems that capture images and data. This includes sophisticated imaging and sounding space-qualified payload systems with operational experience in Geostationary Earth Orbiting (GEO) and Low Earth Orbiting (LEO) programs.

## Leading Edge Technology

The leading edge technology ITT employs to create the sensors, systems, and subsystems include:

- **Active**
  - LIDAR (Light Detection and Ranging)
  - DIAL, differential absorption LIDAR
  - Mid wave infrared (MWIR) DIAL
  - Multi-Functional Fiber Laser Lidar (MFLL)
  - Laser Absorption Spectroscopy
  - Space Rated Laser Sub-systems
- **Passive**
  - EO Sensors & Systems
  - IR Radiometers
  - High Resolution Imagers
  - Spectrometers (FTS and Dispersive)



Cross-track Infrared Sounder (CrIS) for NPOESS (National Polar-orbiting Operational Environmental Satellite System).

## Visualization, Analysis and Image Processing Software

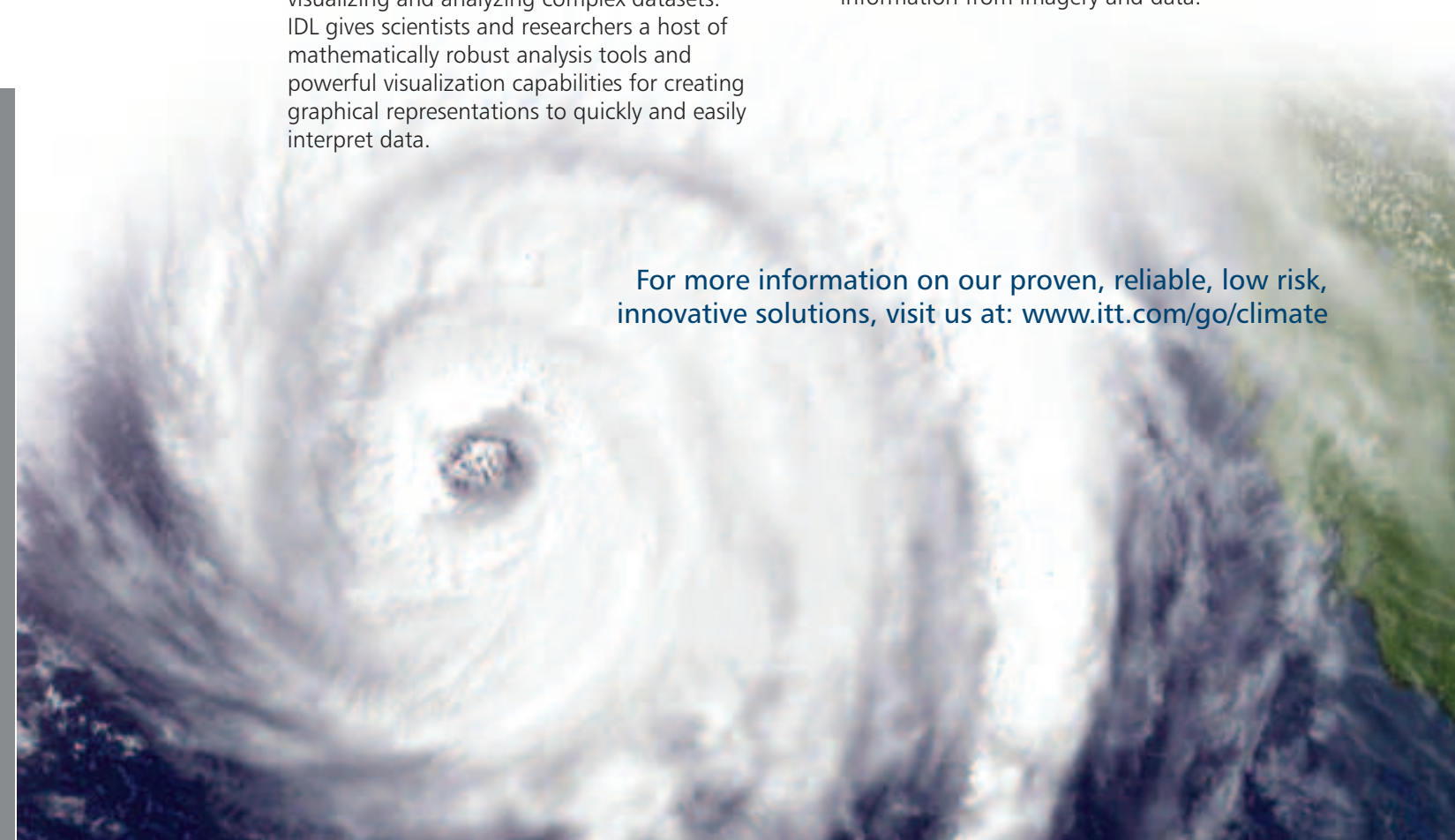
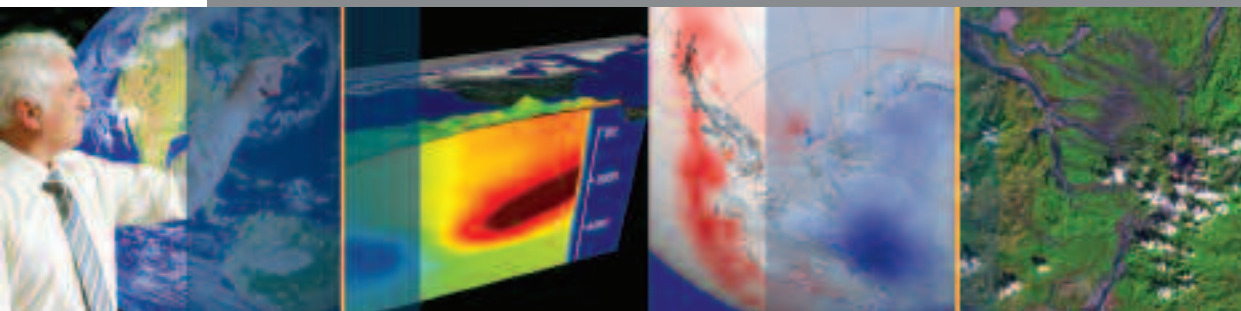
Once imagery and data are captured, ITT's industry-leading software solutions are used to analyze, visualize and process them.

- IDL is a leading computing environment for visualizing and analyzing complex datasets. IDL gives scientists and researchers a host of mathematically robust analysis tools and powerful visualization capabilities for creating graphical representations to quickly and easily interpret data.

- ENVI is a premier software solution for processing and analyzing geospatial imagery and data gathered from airborne and satellite sensors. ENVI combines a flexible and powerful image visualization engine with scientific algorithms and automated workflows to help image scientists and analysts get meaningful information from imagery and data.

## A tradition of excellence

At the inception of space-borne meteorology, ITT was part of the original team working with NASA and the National Oceanic & Atmospheric Administration (NOAA) which established the meteorological program in 1965. Our sophisticated active and passive space-borne sensors, systems and subsystems are recognized for their innovation, performance, stability and longevity and have consistently achieved 100% on-orbit mission success.



For more information on our proven, reliable, low risk, innovative solutions, visit us at: [www.itt.com/go/climate](http://www.itt.com/go/climate)