KaTron®

TERRA*tron*™ - Terrain Simulation Server

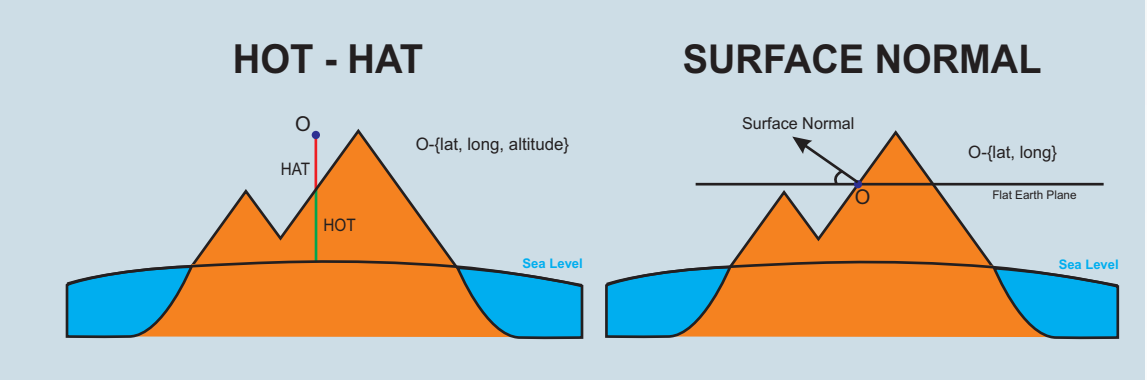
KaTron's TERRA*tron*™ is a next-generation Terrain Simulation Server software that provides terrain database services for all kinds of simulation applications. TERRA*tron*™ processes very large scale gridded elevation data and enables real-time queries on these data.

TERRA*tron*™ is the perfect solution for applications requiring real-time terrain analysis/information like sensor, communication and navigation simulaton.

TERRA*tron*™ processes terrain databases based on industry standard formats like OpenFlight and NIMA DTED and converts these to a triangular grid format without any loss of precision. This enables optimized terrain loading and multiple simultaneous real-time terrain query operations

TERRA*tron*™ Features

- Client – Server, Multi-Platform Architecture
- HLA Interface
- TCP/IP, IDP Interface
- Graphical User Interface (GUI)
- Real-time Calculations and Queries
  - Height of Terrain
  - Height above Terrain
  - Surface Normal
  - Line of Sight
  - Point of Intersection – POI on terrain between two points
  - Point of Intersection – POI on terrain on circle with given radius
  - Slant Range
  - MIN/MAX Points between two points on line
  - MIN/MAX Points on circle with given radius
  - Air Distance of two points on terrain
  - Projected Distance of two points on terrain
  - Depth of Sea
  - Coast Line



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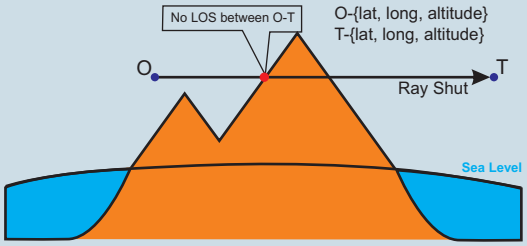
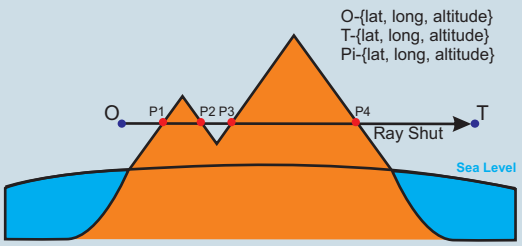
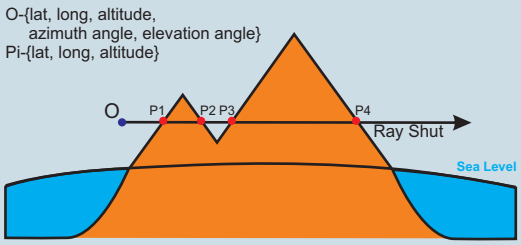
LINE OF SIGHT



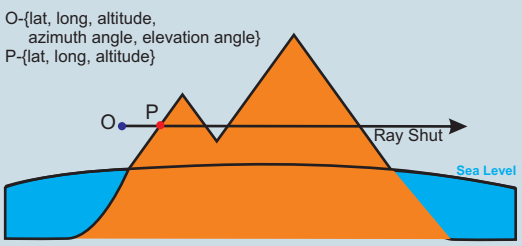
POI - 1



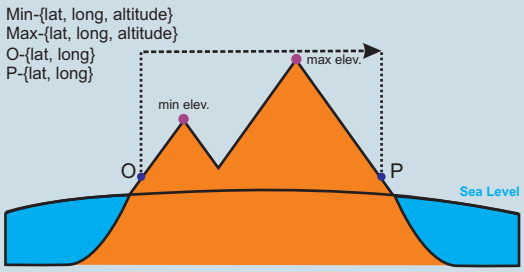
POI - 2



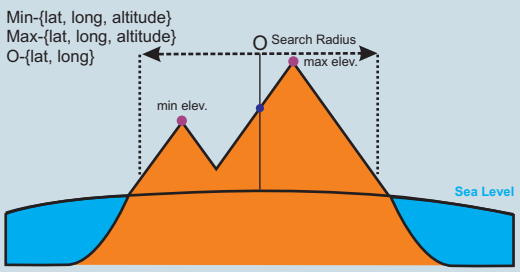
SLANT RANGE



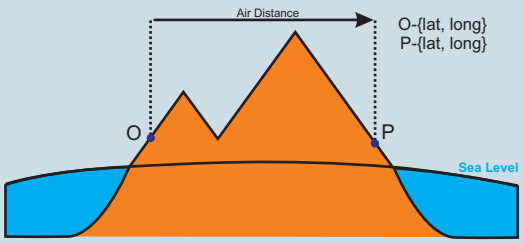
MINMAX ELEVATION 1



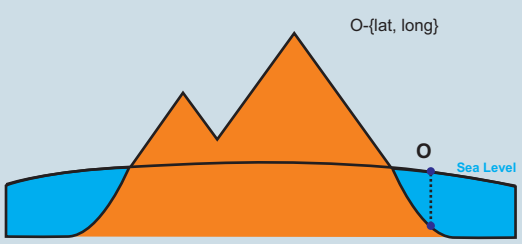
MINMAX ELEVATION 2



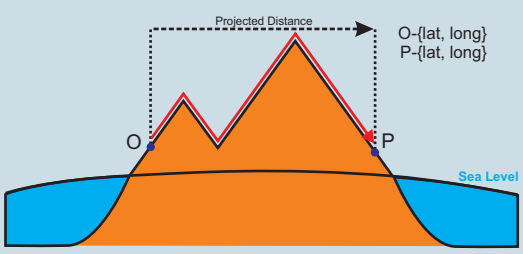
AIR DISTANCE



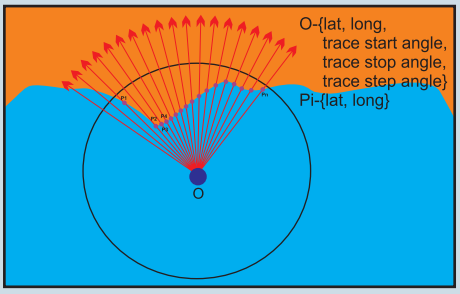
DEPTH OF SEA



PROJECTED DISTANCE



COAST LINE



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