

Geosapiens Flood Modeling Solutions

**Accurate flood modeling data
for smarter decisions**

Embrace cutting-edge flood risk modeling technology developed from over a decade of dedicated research in hydrology, climate science, and advanced analytics. Geosapiens transforms data into actionable insights, enabling precision in risk assessment and planning.

Our modeling capabilities

Fluvial flood model

Understand the behavior of river systems to predict flooding caused by river overflow. Utilizing cutting-edge hydrological data and sophisticated climate modeling, our fluvial model calculates flood extent and water depth for a wide range of scenarios.

Pluvial flood model

Understand surface water flooding from heavy rainfall with our model, that details how water disperses across varied terrains, which is crucial for urban flood preparedness.

Coastal flood model

Access sophisticated analyses of coastal flooding influenced by sea level rise and storm surges that are vital for protecting coastal assets and communities.



Climate change scenarios

Benefit from forward-looking projections based on varying climate change scenarios to plan for future risk with greater confidence.

Event catalogue

Our stochastic scenario-based simulations and event catalogues generate probabilistic loss distributions across multiple assets and regions, providing a comprehensive view of outcomes for precise decision-making and robust risk mitigation at the portfolio level.

Financial modeling

Equip your organization with advanced tools to estimate potential financial impacts of flood events. Our technology enhances portfolio analysis by integrating flood risk data, allowing you to assess and manage risks across a diverse portfolio.

Seamless integration and strategic advantages

Accessing and leveraging flood risk data effectively



Accessing our modeling data: a suite of solutions adapted to your needs



Integrates seamlessly with your existing systems for real-time data access that enhances responsiveness and decision-making capabilities.



Engage with our user-friendly online portal to directly access, interact with, and derive reports from our flood risk assessments at your convenience.



Utilize our web data services to incorporate flood risk data directly into your web-based applications, making data-driven insights readily available.

Helping you make data-driven decisions

Comprehensive flood modeling solutions covering Canada-wide territory and all flood types

Ensure compliance with financial and environmental regulations, safeguarding your operations and reputation.

Reduce operational costs and mitigate potential losses with proactive flood risk management.

Make informed decisions based on reliable data to increase the resilience and the preparedness of your organization to face flood risks.

Discover how Geosapiens can transform your approach to flood risk management. Contact us today for a demo or trial and let us help you to be more prepared to face flood risks.

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