



Expierence
Knowledge
Teamwork

We design
the Future

HASIS 3DI system

- HASIS 3DI (Integrated 3D Hail Suppression Information system) is used in a network of 13 radar centers controlling over 1600 hail suppression stations across Serbia.
- Since 2000. HASIS 3DI is in operational use by the Republic Hydrometeorological Service of Serbia
- HASIS 3DI supports 3 types of meteorological radars:
 - Mitsubishi RC34A
 - Gematronik METEOR 400S
 - Gematronik METEOR 500S

Research area:

- GIS -
- Computer Graphics -
- Virtual Reality -
- Expert Systems -
- Artificial Intelligence -
- C4I -



CG & GIS L@b
Design the future ...

Computer Graphics and Geographic
Information Systems Laboratory

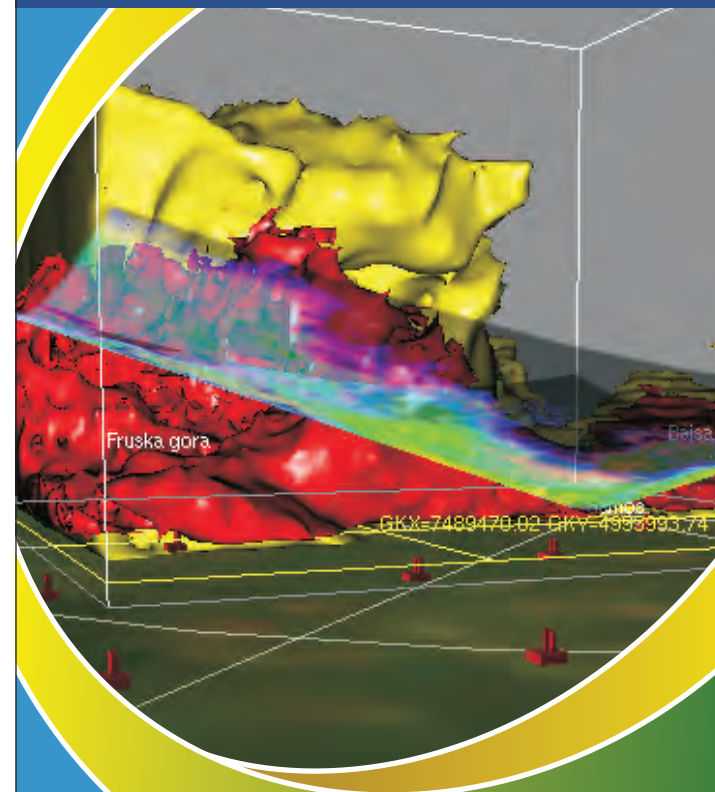
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HASIS 3DI

**Integrated 3D Hail
Suppression Information**



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HASIS 3DI

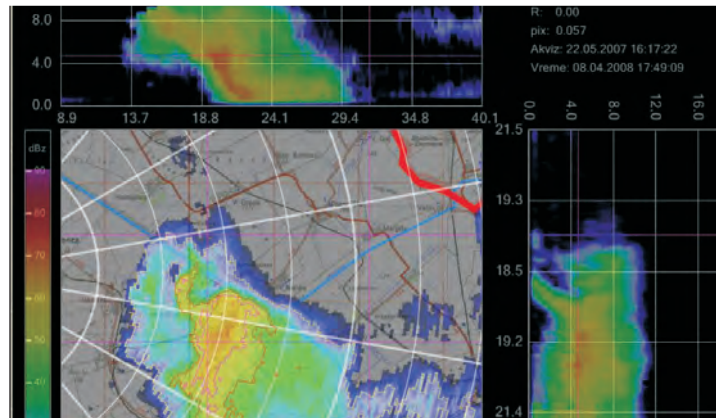
HASIS 3DI features:

- Provides complete support for hail suppression methodology using rockets for cloud seeding
- Real time digital radar signal processing
- 2D and 3D radar data visualization
- Real time monitoring of atmospheric phenomena and early detection of clouds with hail probability
- Automatic calculation of seeding parameters based on hail threatening cloud type
- Seeding simulation and analysis
- Resource management and reporting

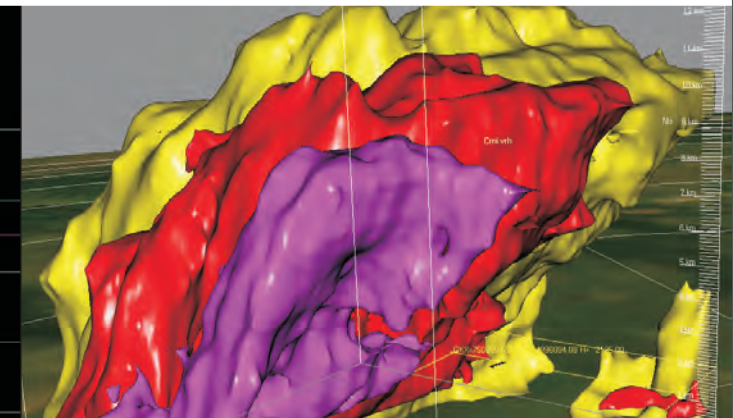
Platform:

Standard PC
MS Windows OS
MS Access

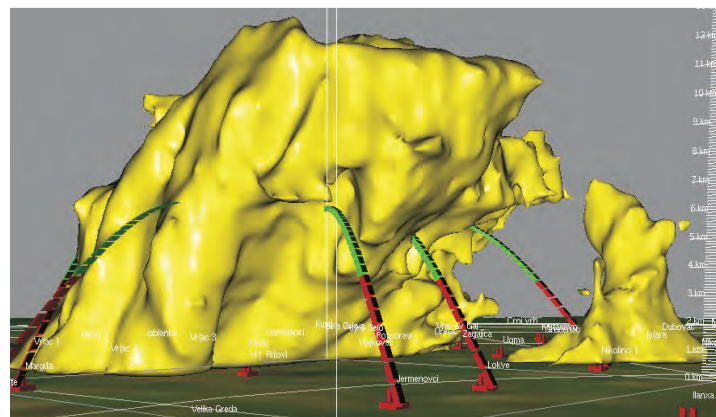
2D CLOUD VISUALIZATION



3D CLOUD VISUALIZATION



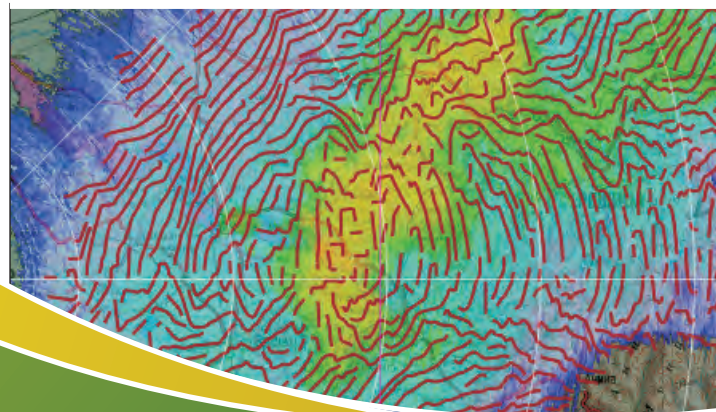
3D CLOUD SEEDING



2D CLOUD SEEDING



2D CLOUD STREAMLINES



3D CLOUD STREAMLINES

