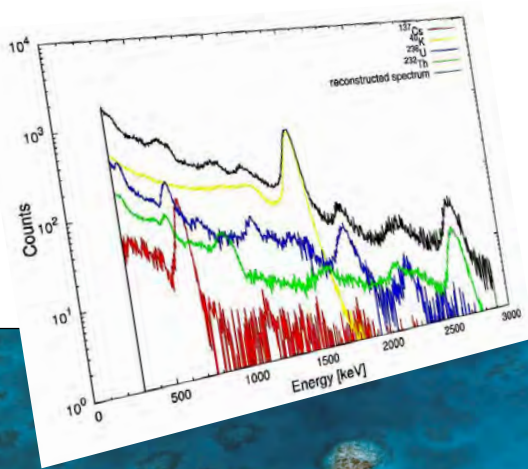


GammaFLY

Airborne Gamma Radiometric Ultracompact Mapping System

- **Emergency response:** orphan sources identification, mapping of industrial contamination, assessment of nuclear fallout
- **Exploration:** quick identifications of territory potential for mineral sand, U and Th, phosphate rocks, rare earth placers
- **Prospection:** geophysical survey on potassic/uranium alteration, radiological pre-mining baseline mapping
- **Environmental:** baseline radioelement mapping, identification of geogenic radon prone areas, ground water discharge and recharge monitoring Repository facilities and Nuclear Power Plants monitoring: discharge and leaching control and monitoring
- **Transportation control:** customs and interport security
- **Soil mapping and geomorphic dynamics monitoring:** style of weathering, degree of leaching and nutrient status



PRELIMINARY



Airborne Gamma Ray Spectrometry has been used for decades for environmental mapping, geological mapping and natural resources exploration, as well as for assessment of the territory radiological emergency status in case of nuclear accidents. The new generation of compact digital data acquisition and online processing equipment allows faster airborne survey campaigns reducing noticeably the cost of such mappings, and enhancing the flexibility of operations.

The CAEN GammaFLY is a ready-to-fly airborne gamma ray spectrometer designed around ultra-compact data acquisition electronics and NaI(Tl) detectors modules. It can be mounted rapidly and easily on helicopters for near real-time surveillance and radiometric data recording of the territory.

The System is equipped with GPS/Altimeter and Pressure and Temperature sensors to measure position, speed and altitude above the ground. The altimeter is accurate to 2% of the true flying height. The list-mode acquisition allows high flexibility in the off-line processing, both for security or mapping purposes.



<<< SAMORAD web page

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CAEN  Electronic Instrumentation

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Small details... Great differences

PRELIMINARY