

RAPPORT DE SYNTHESE DU GROUPE DE TRAVAIL VII-5

W. G. VII-5 Report

"RESSOURCES NON RENOUVELABLES"

"Non renewable resources"

par / by

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Working Group 5 included three sessions with 15 papers out of 19 and two business meetings.

The papers can be grouped into four categories :

- Geobotanical investigation
- Comparison of SPOT simulated imagery, LANDSAT and aerial photography for structural and lithologic discrimination
- use of LANDSAT and/or SPOT simulated imagery for geologic interpretation
- the use of SIR A and/or SEASAT for geologic interpretation.

Many of the papers presented results of on-going projects.

In summary, the spatial resolution, the spectral configuration and the synoptic coverage of systems such as SPOT, satellite microwave sensors, and the thematic mapper offer the geologist a tool which extends the spatial capability of LANDSAT MSS systems to interpret geologic parameters.

These interpretations may be geobotanical, structural, lithological or have implications for other geologic factors including geothermal activity and mineral deposits.

Researchers are comparing systems in order to determine which set of sensor characteristics and analytical techniques are most appreciate for solving a particular problem or set of problems.

Our working group has identified some problems in the field and recommends a number of topics which should be considered for inclusion at the 1984 meeting of the Congress.

PROBLEMS

- Potential lack of compatibility of systems.
- The importance of stereo for geologic interpretation.
- An investment of millions of dollars for hardware and software systems combined with a lack of continuity (or commitment) for future systems.
- Advisability of more poster sessions.

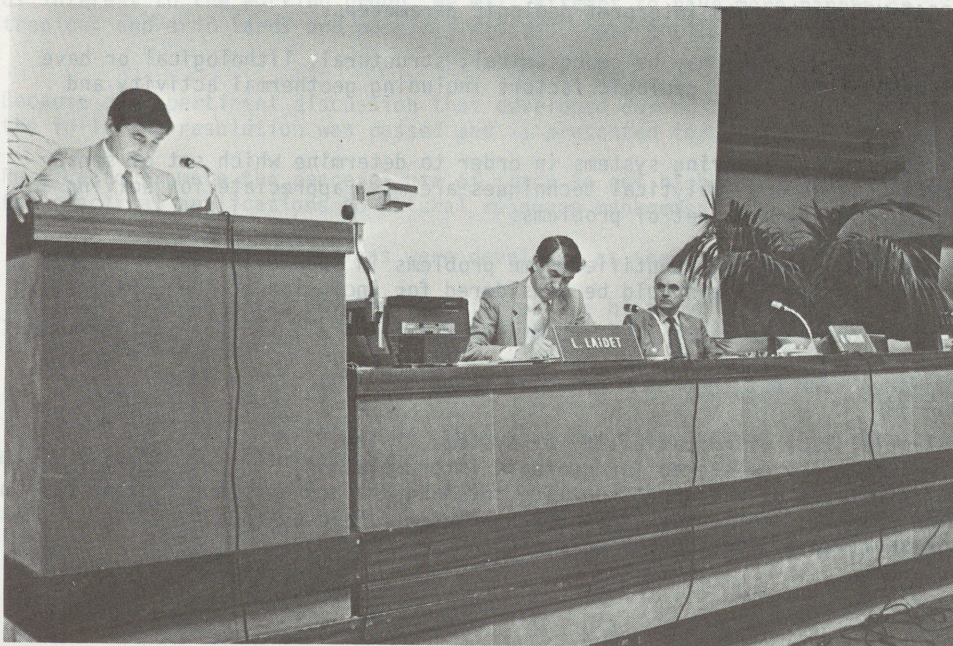
NEW TOPICS

- The use of satellite systems for geologic modeling.
- Comparison of systems to determine which sets of sensors characteristics are most appropriate for geologic applications.
- Combinations of systems for increasing capability in geologic applications.
- Importance of vegetation characteristics for studies in the investigation of mineralization.
- Optical waveband configuration.
- New thematic applications.
- Multispectral thermal sensing.
- Research in the spectral signatures of soils , rocks, vegetation as they relate to geology .
- Geologic hazard analysis.
- Absolute necessity for solicited papers from the mining and petroleum industry for state-of-the-art investigations.
- Diverse and new analytical techniques being developed.

TOPICS FOR DISCUSSION

1. Is there a need for new sensing systems for geologic investigations?
2. Would it be desirable for data from various satellite systems to be in a compatible format ?
3. What is the best compromise between spectral and spatial resolution and stereo ?

Présentation des rapporteurs Reporter's presentation



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