

RAPPORT DE SYNTHÈSE DU GROUPE DE TRAVAIL VII-6

W. G. VII-6 Report

"SURVEILLANCE DE L'ENVIRONNEMENT (TERRE ET EAU)"

"Environmental monitoring (land and water)"

par / by

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Eight (8) papers were presented during the two sessions : N°2 on Monday, 13.9.82 and N°18 on Wednesday 15.9. 82.

Six contributors were not able to present their papers.

Attendance varied between 40 to 70 persons.

The papers presented were under the following headings :

ENVIRONMENTAL MONITORING

- a) identifying water quality -(i) using Landsat images (J. VERDIN, USA)
(ii) thermographic airphotos (S. SOUDOPLATOFF, FRANCE)
- b) land -(i) ecological changes caused by new town construction (COLLIER, COLLINS, U.K.)
(ii) coastal and environmental changes by tourist settlements (GRIFFITH, COLLINS, U.K.)

URBAN INFORMATION FROM R.S. SOURCES

- (i) Simulation results of SPOT : 10 m pixel for urban images (S. SOUDOPLATOFF, FRANCE)
- (ii) Landuse and Environmental data bank (K. ZIRM, SALZBURG, AUSTRIA)
- (iii) Enhancing Landsat data for urban information (H. SHIMODA, JAPAN)
- (iv) Population density in homogeneous urban areas (V. POLLE, NETHERLANDS)

All the papers presented made a contribution to our present state of the art, and, in the case of the first four papers, the methodology can now be applied operationally on a wider scale.

Mr GUAN HUA XU, Chinese Academy of Forestry, Peking, gave an outline on the land use monitoring being undertaken in North China, using Landsat images, to the W.G. VII-6 committee meeting.

The Data Bank being established for Salzburg adds to the systems and experience of land- and environmental Data Banks, operational in the Scandinavian countries.

During the W.G. VII-6 Committee meeting held on Thursday, 16 September, attention was drawn to the priority which needs to be accorded to :

- (i) SPOT : the technique of monitoring urban environmental structure ;
the application of, and the training of manpower for, these techniques for urban settlement analysis, and further urban planning requirements ;
the further development of the application of SPOT imagery to Regional Ecological Analysis, including regional, environmental mapping ;
the analysis of the 'dynamics of ecological changes' with a quantification and economic values attached.
- (ii) SIMULATION MODELS : with the scale and complexity of environmental degradation and the erosion of natural resources, and the continually increasing demands from an increasing number of human beings, more attention should be given by W.G. VII-6 to the application of systems engineering to environmental monitoring, and modelling of the quantitative interaction of ecological environmental components with the needs of human settlements.
- (iii) ENVIRONMENTAL STANDARDS : on the one hand to develop further the use of remote sensing for quantifying environmental standards, and on the other hand, to establish acceptable standards of the environment which can be given statutory support for control purposes.

A) DEVELOPMENT

A Working Group was formed by the Commission of the European Communities, under the leadership of Professor Oberpfafer, Spain, D.

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