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# Future Earth Observation Systems

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## FUTURE GLOBAL INFORMATION NEEDS FOR LAND RESOURCES

RUDY DUDAL

Food and Agriculture Organization  
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Dr. Dudal received his Ph.D. in Agriculture Science from the University of Louvain in Belgium and has been active in Land Use Planning and Soil Survey since then. He joined FAO in 1955 as a field expert under the expanded program for technical assistance. In 1959 he was entrusted with a number of field assignments in Asia and the Far East. In 1961 he became the Soil and Land Use Correlator for the FAO/UNESCO Soil Map of the world. Beginning in 1970 he was Chief of the Soil Resources Development and Conservation Service of the Land and Water Development Division. From 1974-1978 Dr. Dudal was Secretary General of the International Soil Science Society. December, 1976, Dr. Dudal was appointed Director of Land and Water Development Division. His responsibilities cover the fields of Remote Sensing, Fertilizer and Plant Nutrition Water and Soil Management and Conservation.

## FUTURE EARTH OBSERVATION SYSTEMS

PITT G. THOME

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Pitt Thome received his B.S. in Aeronautical Engineering from University of Notre Dame and advanced degrees from MIT and Xavier University. He was in industry with United Aircraft Corporation in their Research Laboratory and with General Electric in their Aircraft Nuclear Propulsion Department and Space Division prior to joining NASA Headquarters in 1966. He has held position as Director, Advanced Programs, Office of Space Science and Applications; Deputy Director, Earth Observations Program, Office of Applications; Director, Weather and Climate Program, Office of Applications; currently he is Director, Resource Observation Division, Office of Space and Terrestrial Applications. Mr. Thome is responsible for all remote sensing programs including Renewable Resources, Non-Renewable Resources, Geodynamics and the Landsat Program.

## A SURVEY OF SOIL INFORMATION SYSTEMS

STEIN N. BIE

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Norwegian, 37 years, graduated University of Oxford and Cambridge, England, D. Phil Oxford 73 on efficiency of alternative soil survey methods. Field research in East Africa, Australia, Cyprus; Five years project leader soil information systems, Netherland Soil Institute and Geological Survey. Now research on natural resource information systems in Norway, especially cartography. Secretary Working Group on Soil Information Systems of ISSS.