

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

1N-0

NASA TECHNICAL MEMORANDUM

NASA TM-75997

STUDIES ON THE APPLICATION OF REMOTE SENSING
BY ARGENTINIAN ORGANIZATIONS

Translation of "Trabajos de 'Aplicacion de la Teledeteccion' Organismos Nacionales (Argentina)", (Paper presented at the United Nations' Regional Seminar on Space Applications organized in preparation for the Second United Nations' Conference on the Exploration and Utilization of Outer Space for Peaceful Purposes, Quito, Ecuador, 19-23 April 1982,) (UNISPACE 82), Buenos Aires, Argentina, 1982, pp 1-6

(NASA-TM-76897)	STUDIES ON THE APPLICATION	M82-30583
OF REMOTE SENSING BY ARGENTINIAN		
ORGANIZATIONS (National Aeronautics and		
Space Administration) 9 p HC A02/HF A01		Unclass
	CSSL 05B G3/43	28683



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
WASHINGTON, D.C. 20546
MAY 1982

ORIGINAL PAGE IS
OF POOR QUALITY

STANDARD TITLE PAGE

1. Report No. NASA TM-76897	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle STUDIES ON THE APPLICATION OF REMOTE SENSING BY ARGENTINIAN ORGANIZATIONS		5. Report Date May 1982	6. Performing Organization Code
		8. Performing Organization Report No.	
7. Author(s)		10. Work Unit No.	
		11. Contract or Grant No. NASw-3541	
9. Performing Organization Name and Address Leo Kanner Associates Redwood City, California 94063		13. Type of Report and Period Covered Translation	
		14. Sponsoring Agency Code	
12. Sponsoring Agency Name and Address National Aeronautics and Space Admin- istration, Washington, D.C. 20546			
15. Supplementary Notes Translation of "Trabajos de 'Aplicacion de la Teledeteccion Organismos Nacionales (Argentina)," (Paper presented at the United Nations' Regional Seminar on Space Applications organized in preparation for the Second United Nations' Conference on the Exploration and Utilization of Outer Space for Peaceful Purposes, Quito, Ecuador, 19-23 April 1982,) (UNISPACE 82). Buenos Aires, Argentina, 1982. pp. 1-6.			
16. Abstract List of papers on application of remote sensing by Argentinian organizations.			
17. Key Words (Selected by Author(s))		18. Distribution Statement Unclassified-Unlimited	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages	22.

STUDIES ON THE APPLICATION OF REMOTE SENSING
BY ARGENTINIAN ORGANIZATIONS¹

NATIONAL UNIVERSITY OF LA PLATA - Faculty of Natural Sciences -

/1*

Department of Remote Sensors

Address: Paseo del Bosque - (1900) La Plata - Province of Buenos Aires

- Use of LANDSAT Pictures Apply to Hydrogeology. Geological Studies of Tierra del Fuego.²
- Use of LANDSAT Pictures to Obtain Basic Data in Hydrology.

MINISTRY OF AGRICULTURE OF THE SANTA FE PROVINCE

Address: Bv. Pellegrini - (3100) Santa Fe

- Studies of Littoral Geomorphology by Means of LANDSAT Pictures.²
- Survey of Soils by Using LANDSAT Satellite Pictures.

NATIONAL UNIVERSITY OF SAN MIGUEL DE TUCUMAN - Faculty of Natural Sciences

Address: Miguel Lillo 205 - (4000) San Miguel de Tucuman

- Studies of Soils (Physiography) in Northeast Argentina on the Basis of LANDSAT Pictures.²
- Seasonal Changes as Factor of the Interpretability of LANDSAT Pictures as Regards Physiographic Aspects and Ground Occupation of the Tucuman Province.³
- Evaluation of the Morphogenetic and Morphodynamic Characteristics of the Valley of Catamarca Through LANDSAT Data.²
- Use of LANDSAT Pictures in Geomorphological and Edaphic Cartography on a Small Scale of the Southeast of Santiago del Estero.

¹Paper presented at the United Nations' Regional Seminar on Space Applications organized in preparation for the Second United Nations' Conference on the Exploration and Utilization of Outer Space for Peaceful Purposes, Quito, Ecuador, 19-23 April 1982, (UNISPACE 82), Buenos Aires, Argentina, 1982, pp 1-6.

²Papers to be presented at the 16th ERIM-CNIE Symposium in June of 1982.

³Papers presented at the Symposiums of Automatic Analysis of Application of LANDSAT Data held by CNIE, 1979/1980/1981.

- The Classification of the Relief with LANDSAT Data as Basis of the Integrated Evaluation of the Countryside.

NATIONAL UNIVERSITY OF THE SOUTH - Department of Agricultural Science

Address: Avda. Colon 80 - (8000) Bahia Blanca - Province of Buenos Aires

- Studies of Water by Digital Analysis of Remote Detected Data.²
- Macrosurvey with LANDSAT Pictures.
- Geomorphological Studies in the Region of Bahia Blanca with LANDSAT Pictures.²

NATIONAL UNIVERSITY OF SAN JUAN - Faculty of Engineering and Architecture

Address: Av. Libertador y San Martin 11090 - (5400) San Juan

- Studies of the Use of the Soil in the Valley of Tulum, Ullum-Zonda, Jachal-Huaco and Valley Fertile, with LANDSAT Pictures.
- Studies of Mineral Deposits by Satellite Pictures.³ /2
- Geotechnical Map of Cuyo.³
- Structural Analysis of the Sierra Pintada (Mendoza).³
- Structure of the Sierras de Cordoba, Analysis of LANDSAT pictures.³

CONICET

Address: Avda. Rivadavia 1823 - 9° piso - Buenos Aires

- Evaluation of Agricultural Yields with LANDSAT Data.²

CONICET - National Patagonic Center

- LANDSAT Data Applied to the Survey of Natural Resources.³

CONICET - Argentine Institute of Nivology and Glaciology

Address: C.C. 330 - (5500) Mendoza

- Applications of LANDSAT Data in Hydrology, Glaciology and Geocryology.³

CONICET

- Lithological, Geomorphological and Edaphological Prospection of the Northeast of Chubut.³
- Geomorphological Survey of Chubut, Scale 1:500,000 using LANDSAT Satellite Pictures.³

- Survey of the Soils of Chubut Using LANDSAT Satellite Pictures.³

NATIONAL UNIVERSITY OF CUYO - Faculty of Petroleum Engineering

Address: Parque Gral. San Martin - (5500) Mendoza

- Oceanographic Measurement.²

NATIONAL METEOROLOGICAL SERVICE

Address: 25 de Mayo 625 - Buenos Aires

- Techniques for Forecasting of Meteorological Systems with Remote Sensors.²
- Studies of the Impact of Climate in the Subregion of Chaco Deprimido.²

NATIONAL UNIVERSITY OF BUENOS AIRES - Faculty of Exact Sciences

Department of Hydrology

Address: Ciudad Universitaria - Buenos Aires

- Geological Studies and Studies of Waters with LANDSAT Pictures. /3

UNIVERSITY OF BUENOS AIRES - Faculty of Exact Sciences - Department of Geology

Address: Ciudad Universitaria - Buenos Aires

- Application of LANDSAT Pictures to Geomorphological Studies.³
- General Report of Soils in the Region of the Effect of Rio Chubut Using Satellite Pictures.³

IBM ARGENTINA

Address: Paseo Colon y Venezuela - Buenos Aires

- Computer Programs Applied to the Digital Processing of LANDSAT Pictures.

NATIONAL SPACE RESEARCH COMMISSION - NATIONAL OBSERVATORY OF LA RIOJA

Address: Ortiz de Ocampo 1700 - La Rioja

- Studies of Hydrological Basins on the Basis of Satellite Pictures.³
- Hydrological Study According to Satellite Pictures and Dual Physical Prospection of the Huaco-Sanagasta Region, Sanagasta District, La Rioja.

IADIZA

Address: Parque Gral. San Martin - C.C. 507 - (5500) Mendoza

- Aerophotographic and Multispectral Survey Carried Out by the CNIE of the Valley Inferior of Rio Chubut.³

INSTITUTE OF ECOLOGY, NATURAL RESOURCES AND TECHNOLOGY OF THE CHACO PROVINCE

Address: Antartida Argentina 527 - (3500) Resistencia - Chaco

- System of Rivers and Drainage Layout of the Province of Chaco by Remote Sensors.³
- Inventory of Natural Resources of the Chaco Province by the Technical Application of Mapping. Digital LANDSAT System.³
- Agricultural Occupation of the Chaco Province.³
- Inventory of Natural Resources of the Province of Chaco, Republic of Argentina, South America, Applying the Mapping Techniques of the Digital LANDSAT System.
- Evaluation of the Agricultural Region in the Central Area of the Province.

NATIONAL UNIVERSITY OF ROSARIO - Faculty of Exact Sciences and Engineering /4

Address: Pellegrini 250 - (2000) Rosario - Santa Fe

- Study of the Line-up and Drainage of the Pampean Plain with Remote Sensors (LANDSAT) (ERIM Symposium - Costa Rica).
- Contribution of LANDSAT Pictures to the Study of the Pampean Plain.³

SUBSECRETARIAT OF RENEWABLE NATURAL RESOURCES AND ECOLOGY

Address:

- Integrated Survey of Natural Resources, Environmental Associations and Aptitude for Forestation of the Chaco Region.³

MINISTRY OF HEALTH OF THE PROVINCE OF BUENOS AIRES

Address:

- Application of Satellite Pictures to the Study of Environmental Regionization.³

NATIONAL INSTITUTE OF AGRICULTURAL TECHNOLOGY

Address: Cervino

- Advances in the Study of Processes of Flooding and Salinization of

the Northeast of the Province of Buenos Aires.³

- Retention and Evaluation by Delimiting Satellite Pictures of the Agricultural Productivity of the Province of La Pampa.³
- Study of the Flooding Processes of the Pampa Deprimida with Special Reference to its Economic Significance in the Flood of April-May 1980.³
- The Flooding of the Northwest Region of the Province of Buenos Aires in the Light of the Data Furnished by the Satellite Pictures.³
- The Satellite Pictures as Tools to Subdivide into Areas with Different Agricultural Potential and to Establish the Overall and Sectional Agricultural Policies of the Country.³
- Use of the Satellite Data in the Establishment of the Soil Map on the Scale of 1:200,000 of a Sector of the Delta Entrexriano (Agreement with the UN).

INTA- Experimental Station

Address: C.C. 272 - (9400) San Carlos de Bariloche - Rio Negro

- Comparative Analysis of Natural Units Mapped in Photomosaics and LANDSAT Pictures.³

INTA - Experimental Station

15

Address: C.C. 164 - (3700) Saenz Pena - Chaco

- Map of Classification by the Capacity for Use of the Soil of the Province of Chaco by Interpretation of LANDSAT Pictures.³
- Digital LANDSAT System.³
- Advances in the Study of the Flooding Processes of Pampa Deprimada.²

FABRICACIONES MILITARES (Military Productions) - Department of Geology

Address: Avda. Cabildo 65 - Buenos Aires

- Program of Satellite Prospection of Mineral Deposits in the Argentine Cordillera Region.³

MILITARY GEOGRAPHIC INSTITUTE

Address: Avda. Cabildo 301 - Buenos Aires

- Digital Computer in the Automatic Analysis of the Use of the Soil.³

GENERAL DEPARTMENT OF IRRIGATION

Address: Barcala y Avda. Espana - (5500) Mendoza

- Analysis of LANDSAT Data of the Argentinian East Central Region.

FEDERAL COUNCIL OF INVESTMENTS

Address: San Martin 852 - Buenos Aires

- Evaluation of the Floodable Areas in the Period of Maximum and Minimum Precipitation and in the Subregions of Salado of the Lower Submeridional Subsystems of Santiago del Estero.³ (Agreement with the Province of Santiago del Estero).
- Evaluation of the Natural Resources of the Subregion of Anatuya in the Lower Submeridional Areas of the Subsystem of Santiago del Estero.³ (Agreement with the Province of Santiago del Estero).
- Urban Study of the Buenos Aires Metropolitan System.³
- Photointerpretation Analysis of Satellite Pictures. Area: Perilago de Rio Hondo (Province of Tucuman).³
- Photointerpretation of Satellite Pictures. Area: Rio Salado (Province of Santiago del Estero).³

NATIONAL INSTITUTE OF SCIENCE AND HYDROLOGICAL TECHNOLOGY

Address: C.C. 7 - Ezeiza - Buenos Aires

- Photointerpretation and Analysis of Satellite Pictures. Area: Perilago de Rio Hondo (Province of Tucuman).³
- Photointerpretation of Satellite Pictures. Area: Rio Salado (Province /6 of Santiago del Estero).³

NATIONAL FOUNDATION OF ENVIRONMENTAL REGULATIONS - Program of Permanent Environmental Evaluation - Subprogram of Modified Natural Medium

Address:

- Evaluation of the Degree of Intervention in the Natural Medium and its Consequences.
- Use of Satellite LANDSAT Pictures for Delimitation and Characterization of Natural Units in the Environmental Prediction.³

NATIONAL FORESTRY INSTITUTE

Address: Avda. Pueyrredon 2446 - Buenos Aires

- A Procedure for the Evaluation of Areas in Accordance with their Forestry Capacity: Integrated Survey of Natural Resources.³
- Precision of Mapping of Forestry Resources on LANDSAT Pictures.³

PROVINCIAL UNIVERSITY OF LA RIOJA - Photocartographic Department

Address:

- Description of the Activities in the Remote Prospection of the Photocartographic Department of the U.P.L.R.³

NATIONAL UNIVERSITY OF MAR DEL PLATA - Faculty of Exact, Natural and Biological Sciences

Address: Maipu 5225 - (7600) Mar del Plata - Buenos Aires

- Application of Satellite Pictures and their Correlation in the Comparative Study of the Fields of Temperature and Salinity in the Bordering Regions of Mar del Plata.