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**Task 4 - Sensor Data Comparison
Image Examples**



253860-5-F

31 March 1994

RETRIEVAL, DISPLAY, AND ANALYSIS TOOL FOR EARTH IMAGERY

Task 4: Sensor Data Comparison

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ERIM-320		REPORT DOCUMENTATION PAGE		<i>Form Approved OMB No. 0704-0188</i>	
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1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE February 1996	3. REPORT TYPE AND DATES COVERED Final Report		
4. TITLE AND SUBTITLE Sensor Data Comparison				5. FUNDING NUMBERS	
6. AUTHOR(S) William A. Tyler Rodney C. Anderson					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Environmental Research Institute of Michigan P.O. Box 134001 Ann Arbor, MI 48113-4001				8. PERFORMING ORGANIZATION REPORT NUMBER 253860-5-F	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Defense Technical Information Center DTIC-AI 8725 John J. Kingman Road, Suite 0944 Ft. Belvoir, VA 22060-6218				10. SPONSORING/MONITORING AGENCY REPORT NUMBER DLA900-88-D-0392/0052	
11. SUPPLEMENTARY NOTES					
12a. DISTRIBUTION/AVAILABILITY STATEMENT Unlimited				12b. DISTRIBUTION CODE A	
13. ABSTRACT (Maximum 200 words) This report consists of a viewgraph presentation summarizing comparisons of data from several earth observation sensors. Text annotations only are included.					
14. SUBJECT TERMS Earth observation, remote sensing				15. NUMBER OF PAGES 10	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT U		18. SECURITY CLASSIFICATION OF THIS PAGE U		19. SECURITY CLASSIFICATION OF ABSTRACT U	
				20. LIMITATION OF ABSTRACT U	

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**TASK OBJECTIVE: To Demonstrate the
Utility of Using Space-Based and
Airborne Sensors to Exploit Image data
Using Information Extraction and Sensor
Fusion Techniques**

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Commercially Available Satellite Data

- SPOT (XS and Pan)
- Landsat (MSS and TM)
- AVHRR (LAC and GAC)
- JERS-1 (Optical and Microwave)
- ERS-1
- CZCS
- KFA (image or digital)

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Other Sources of Image Data

- Airborne Multispectral Scanners (M7)
- Airborne Imaging RADAR Sensors (IFSARE)
- Aerial Photography

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Obtainable Ancillary Data

- Large Scale Topographic Maps
- Digital Elevation Models
- Digital Chart of the World (DCW)
- Scanned Navigational Charts

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RDAST Test Sites

- **Ann Arbor and Environs (Agriculture, Urban Growth)**
- **Chambery, France (Mountainous Environment)**
- **Baghdad, Iraq (Arid Environment)**

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Ann Arbor Site

- Local, Easy Access to Ancillary Data
- ERIM Data Archive Contains Multi-Sensor/Multi-Date Coverage
- "Easy" Environment to Work In
- Some Sensor Fusion Accomplished

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Chambéry, France Site

- Easy access to ancillary data through UNISFERE
- ERIM Data Archive Contains Multi-Sensor Coverage (MSS and TM)
- "Difficult" Environment to Work In (rugged terrain, Foreign Country, etc.)

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Baghdad, Iraq Site

- Difficult to Obtain Ancillary Data
- ERIM Data Archive Contains Multi-Date Coverage (TM)
- Arid Environment Significantly Different than Temperate

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Information Products Generated During Task 4 Activities

- **Populate Portions of the Data Base (Task 1) With Examples of Commercially Available Data**
- **Example of a Landsat MSS, TM and SPOT Image Map for Each Site at a Variety of Scales (“typical” scale, largest practical scale)**
- **Perspective View Flythrough Loop for Chambéry Site**
- **Examples of Other Image-Derived Products: Data Fusion Examples, Change Detection, Terrain Categorization, Spot-Sharpened TM, etc.**