MAPPING COASTAL VEGETATION, LAND USE AND ENVIRONMENTAL IMPACT FROM ERTS-1

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Report on Significant Results

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SIGNIFICANT RESULTS

Vegetation map overlays at a scale of 1:24000 compiled by multispectral analysis from NASA aircraft imagery for all of Delaware's wetlands are being used as ground truth for ERTS-1 mapping and by state agencies for wetlands management. Six major vegetation species were discriminated and mapped, including percentages of minor species.

Analogue enhancements of wetlands vegetation and dredge-fill operations have been produced using General Electric's GEMS data processing and ERTS false color composites. Digital, thematic land use and vegetation mapping of entire Delaware Bay area is in progress using Bendix Corporation's Earth Resources Data System and ERTS Digital Tapes. Statistical evaluation of target-group selection reliability has been completed.

Three papers have been published on ERTS-1 coastal vegetation and land use. Local and state officials are participating in our ERTS-1 program as co-investigators.


