

## INFRA-RED REMOTE SENSING OF SOME GEOTHERMAL FEATURES IN THE TAUPO REGION, NEW ZEALAND

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The measurement of total natural heat loss and heat loss changes of New Zealand hydrothermal areas is an important part of geothermal exploration. Measurement of heat loss from surface discharge features like warm and steaming ground are based on empirical relationships between heat flow and near-surface temperatures. Heat loss surveys using conventional ground measurements are time-consuming which led to the use of remote sensing techniques.

Since plants in the vicinity of warm and steaming ground exhibit marked changes in infra-red reflectivity and absorption, such areas can be defined by infra-red photography using film sensitive to wavelengths of about 700-900 m $\mu$ . Recently a line scanner infra-red equipment (AGA Thermovision) has been used with success to map radiation in the vicinity of the 4.5-5.5  $\mu$  "window" coming from warm water seepages in the Taupo region. Photomosaics composed from scanner images were found to delineate warm ground and seepages with more detail than ground measurements.

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Abstracts Session 9: We

REVIEW OF SUBSURF

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Wireline subsurface meas-  
mentary formations of com

The paper reviews curren  
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urements have commerical a  
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THE INTERPRETATIO  
SEDIMENTARY SEQU

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Modern high density dip c  
tural and stratigraphic featur  
ventional dip symbols into th  
patterns are analysed with th  
with any available geological  
environments. Selected dipme  
are discussed.

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