

Hyperspectral Remote Sensing Of Coral Reefs

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Hyperspectral identification of coral reef features ...

The results of this feasibility study indicate that hyperspectral remote sensing of a coral reef environment will lead to accurate identification and subsequent monitoring of changes in coral health and overall well being. Article Metrics Views 331. Citations Crossref 59 Web of Science 82 Scopus 101.

Hyperspectral Remote Sensing and Radiative Transfer ...

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Hyperspectral remote sensing of coral reefs: Deriving ...

Remote sensing from satellites is an alternative and complementary approach. While remote sensing cannot provide the level of detail and accuracy at a single point than a field survey, the statistical power for inferring large scale patterns benefits in having complete areal coverage.

(PDF) UAVs, Hyperspectral Remote Sensing, and Machine ...

The development of the methodology for the collection and analysis of airborne hyperspectral and RGB imagery would provide coral reef researchers, other scientists, and UAV practitioners with reliable data collection protocols and faster processing techniques to achieve remote sensing objectives.

UAVs, hyperspectral remote sensing, and machine learning ...

Remote sensing was first utilized to study coral reef ecosystems when the Landsat

multispectral sensor was applied in the 1970s (Smith et al. 1975). Since the first application of remote sensing in a coral reef environment, the technology and capabilities of remote sensors have significantly progressed and are becoming increasingly important for mapping, monitoring and understanding global ...

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(PDF) Hyperspectral identification of coral reef features

Hyperspectral Remote Sensing and Radiative Transfer Simulation as a Tool for Monitoring Coral Reef Health

Remote sensing of three-dimensional coral reef structure ...

Hyperspectral remote sensing of coral reefs by semi-analytical model inversion – Comparison of different inversion setups By Thomas Petit, T. Bajjouk, P. Mouquet, S. Rochette, B. Vozel and C. Delacourt

Remote Sensing | Special Issue : Remote Sensing for Coral ...

This shows that UAS-based hyperspectral remote sensing techniques can offer an efficient and cost-effective approach to mapping and monitoring reef habitats over large, remote, and inaccessible areas. The technology used, the sensors, the UAV, and the flight operations are presented in Section 2 of the paper.

HYPERSPETRAL IMAGE ANALYSIS OF CORAL REEFS IN THE ...

Hyperspectral Remote Sensing: Theory and Applications offers the latest information on the techniques, advances and wide-ranging applications of hyperspectral remote sensing, such as forestry, agriculture, water resources, soil and geology, among others. The book also presents hyperspectral data integration with other sources, such as LiDAR, Multi-spectral data, and other remote sensing ...

Bing: Hyperspectral Remote Sensing Of Coral

Hyperspectral remote sensing has also shown significant promise in distinguishing coral species and reef health. For example, Myers et al. [1999] describe how optical spectra can be used to differentiate between pigmented and bleached coral and coral versus macroalgae.

Enhancing the detection and classification of coral reef ...

Focus and Scope The Journal of Hyperspectral Remote Sensing - JHRS is a monthly

journal of scientific publications, which beginning in 2011. It is dedicated to disclosing information about integrative data between hyperspectral imaging and remote sensing methods to improve the knowledge about vegetation, soil and water in tropical environments.

Hyperspectral Remote Sensing - 1st Edition

The method of hyperspectral remote sensing was used to measure reflectance of light in the visible spectrum from living coral tissue affected by different disease states (CYBDL, CYBDA, BLE and ASYM). Reflectance spectra were studied using derivative analysis, spectral indices and cluster analysis.

Journal of Hyperspectral Remote Sensing

hyperspectral remote sensing techniques can offer an efficient and cost-effective approach to mapping and monitoring reef habitats over large, remote, and inaccessible areas.

Hyperspectral Remote Sensing Of Coral Reefs

The results of this feasibility study indicate that hyperspectral remote sensing of a coral reef environment will lead to accurate identification and subsequent monitoring of changes in coral ...

Hyperspectral Sensing of Disease Stress in the Caribbean ...

analysis are allowing a progression in the level of questions that can be addressed using remote sensing and an increase in the effectiveness of the resultant management tools. Imagery acquired in the spring of 2000 by AVIRIS affords a valuable opportunity for evaluating the applications of hyperspectral remote sensing to coral reefs. By

Hyperspectral Remote Sensing Of Coral

My research focuses on the development and application of hyperspectral remote sensing as a valuable component in the assessment and management of coral ecosystems. Remote sensing provides an important quantitative ability to investigate the spatial dynamics of coral health and evaluate the impacts of local, regional and global change on this important natural resource.

Hyperspectral remote sensing of coral reefs by semi ...

M.P. Lesser, C.D. Mobley Bathymetry, water optical properties, and benthic classification of coral reefs using hyperspectral remote sensing imagery Coral Reefs, 26 (2007), pp. 819-829 Google Scholar

Hyperspectral Remote Sensing Of Coral Reefs

Hyperspectral remote sensing is an effective tool to discriminate plant species,

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providing vast potential to trace plant invasions for ecological assessments. However, necessary baseline information for the use of remote sensing data is missing for many high-impact invaders. ... using coral as a case in point.

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