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Remote sensing land surface temperature 297 10-6 10-4 X rays 10-2 1 UV 102 104 106 Microwave 108 TV & Radio Wavelength (µm) Gamma rays Visible 04 07 (µm) Near 07 3 8 15 (µm) Mid Thermal Infrared Figure 1 The electromagnetic spectrum arranged by wavelength Thermal infrared highlighted in bold Adapted from Lillesand et al (2004)

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Remote-sensing algorithm for surface evapotranspiration considering landscape and statistical effects on mixed-pixels Z Q Peng1,2, X Z Xin1, J J Jiao1,2, T Zhou1,2, and Q H Liu1,3 1State Key Laboratory of Remote Sensing Science, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, Beijing, 100101, China 2University of Chinese Academy of Sciences, Beijing

Remote sensing of soil surface properties

DOI: 101177/0309133309346644 Remote sensing of soil surface properties K Anderson* and H Croft School of Geography, University of Exeter, Cornwall Campus, TR10 9EZ, UK Abstract: Remote sensing

Remote Sensing of Environment - Main / HomePage

Remote sensing Land surface temperature LST Statistical modeling Bootstrap Jackknife Portugal Air surface temperature (T air) is an important parameter for a wide range of applications such as vector-borne disease dynamics, hydrology and climate change studies Air temperature data is usually obtained from measurements made in meteorological stations, providing only limited information about

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for the remote sensing of ocean surface salinity Other factors, such as the influence of sea surface roughness and antenna footprint resolution, have to be considered to select the incidence angles for a satellite mission We have performed similar calculations with the KS model The results are very similar to the predictions from, the Mapping surface sources of acid mine drainage using remote ...

Mapping surface sources of acid mine drainage using remote sensing: case study of the Witbank, Ermelo and Highveld coalfields Emmanuel Sakala1,2, Francois Fourie2, Modreck Gomo2, Henk Coetzee1 1Council for Geoscience, Private Bag X112, Pretoria, 0001, South Africa, esakala@geoscience.org.za 2Institute of Groundwater Studies, University of the Free State, PO Box 339, ...

Satellite remote sensing applications for surface soil ...

of the different remote sensing techniques for surface soil moisture estimation As remote sensors do not measure soil moisture content Received November 25, 2008; accepted January 19, 2009 E-mail: lwang2@gmuedu Front Earth Sci China 2009, 3(2): 237-247 DOI 101007/s11707-009-0023-7 directly, mathematical models that describe the connection between the measured signal and soil moisture

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surface water temperature into a one-dimensional two-layer freshwater lake model, leading to significant improvements over the free model run Overall, to our knowledge, this is the first DA experiment that blends both in situ observations and remote sensing data into a three-dimensional hydrodynamic model with high dimensionality The aim of this study is to develop a flexible frame- ...

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Seasonal evaluation of the land surface scheme HTESSEL against remote sensing derived energy fluxes of the Transdanubian region in Hungary E L Wipfler 1, K Metselaar1, J C van Dam1, R A Feddes1, E van Meijgaard2, L H van Ulft2, B van den Hurk2,3, S J Zwart4,5, and W G M Bastiaanssen 4,5 1Wageningen University, Soil Physics, Ecohydrology and Groundwater ...

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