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The Advantages And Disadvantages Of Using Airborne Geophysical Data(Radiometric And Magnetic) For Hydrothermal Alteration Mapping. A Case Study Of Dehaj-Sarduyieh Belt

Abstract:

Airborne geophysics is one of the methods that is used for hydrothermal alteration mapping. Reduction in time and capital is a prime concern in every exploratory project. The airborne geophysical data of few mineral deposits such as Darrehzar, Kader, Meiduk, Kouhpanj, Sar Cheshmeh and Chahrgonbad were analyzed and compared with remote sensing data and their capabilities for mapping hydrothermal alterations were assessed. The overall results showed that due to the lithological and Erath's surface effects, airborne geophysical data can not be used effectively and the airborne data should be simultaneously analyzed along with remote sensing data.

Keyword: airborne geophysic, radiometry, magnetometry, alteration, remote sensing.

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(Arcmap)

(ENVI)

K⁴⁰

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(Arcveiw)

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() $K_i = (\quad / \quad)^*$

Ki

() $K_d = (k - k_i)/k_i$

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[*]

() $F = k * u / th$

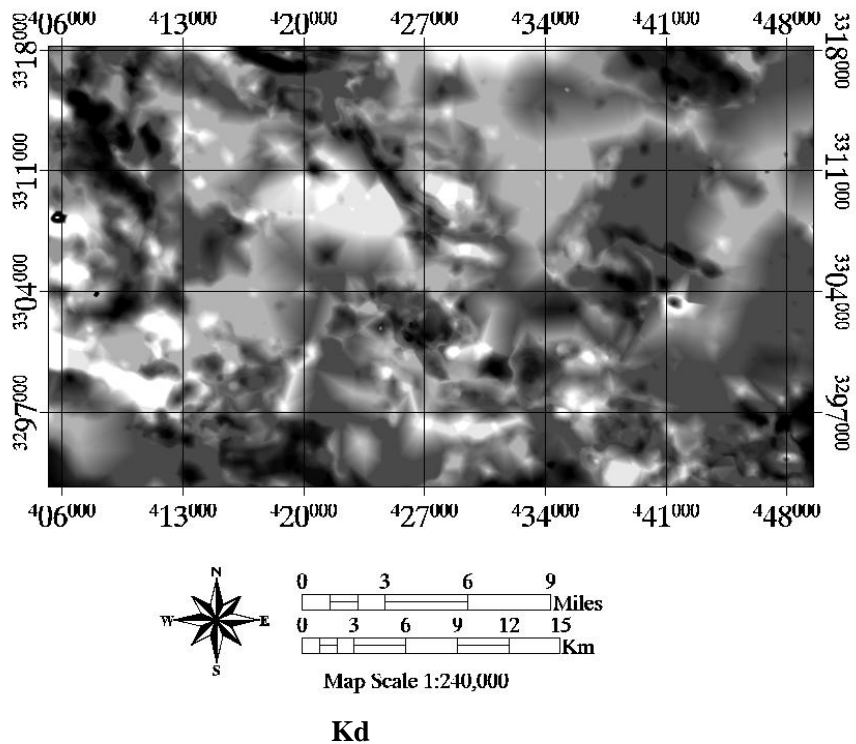
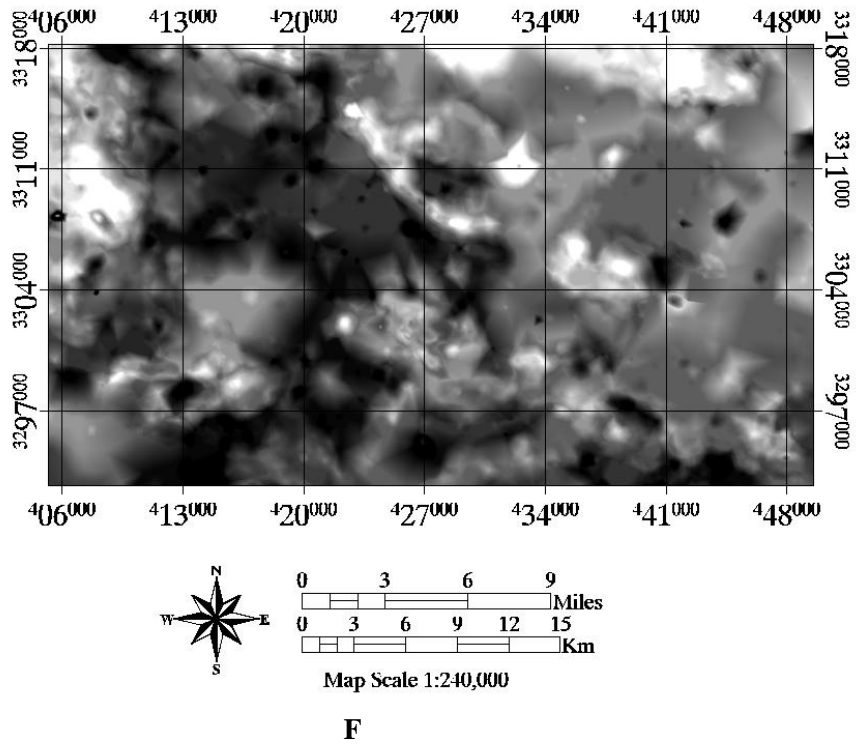
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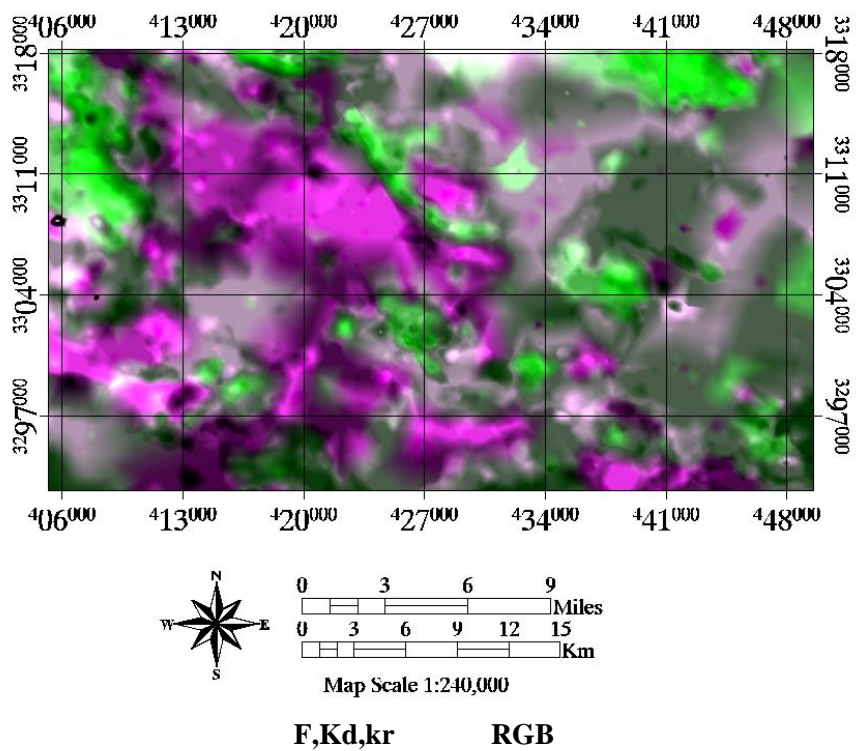
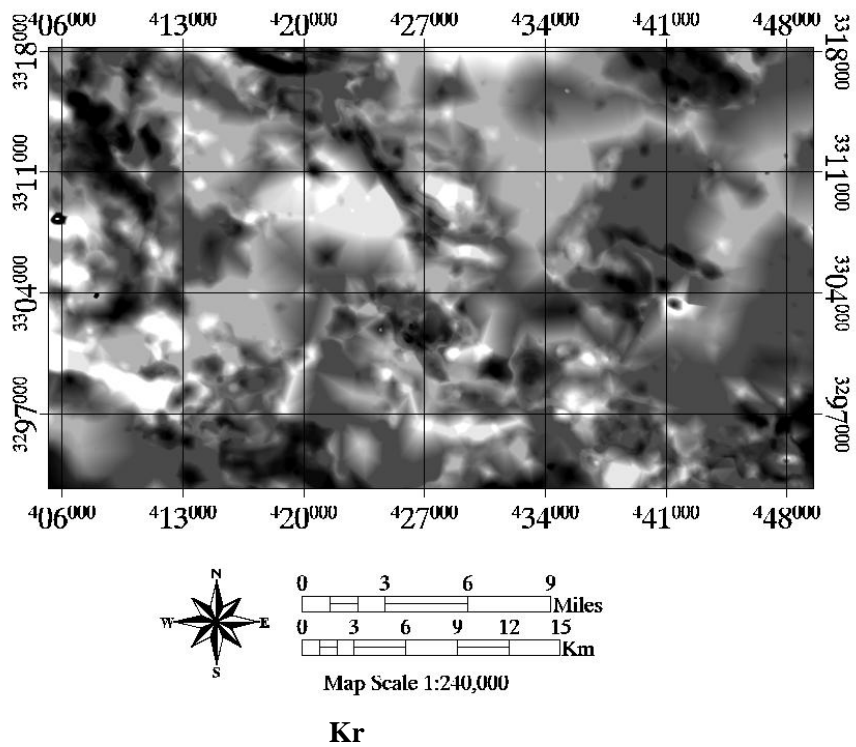
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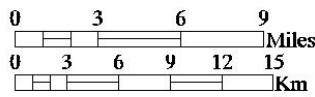
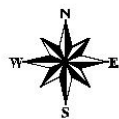
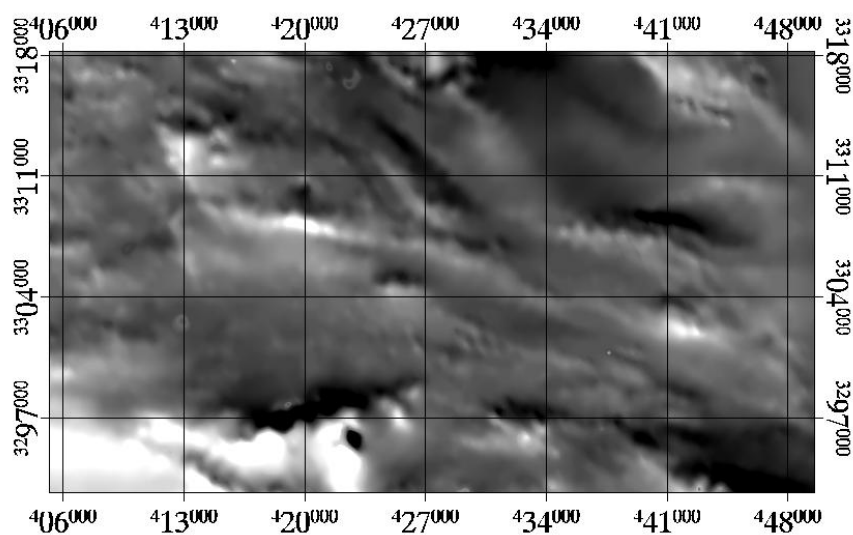
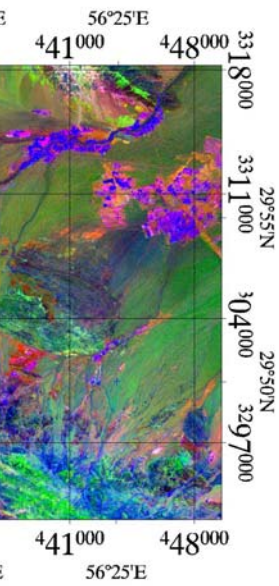
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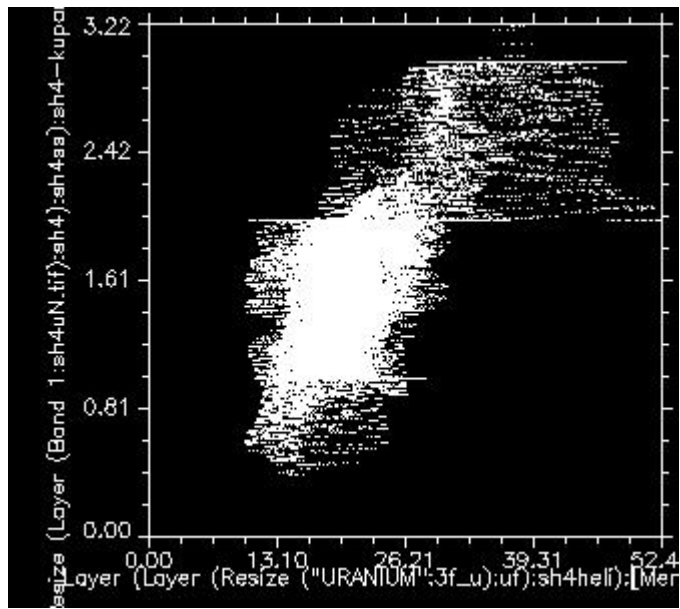
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