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EXPLORATION GEOPHYSICS

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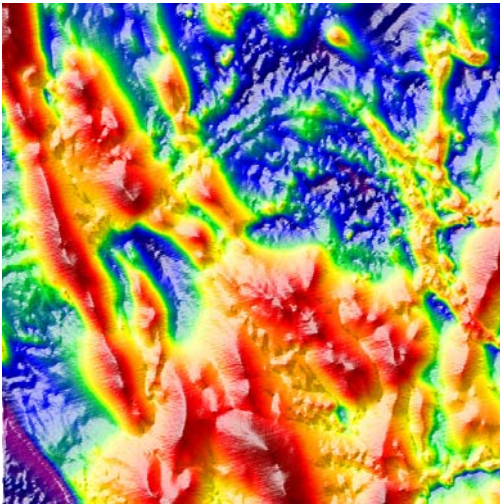
No: 9

CASE HISTORY

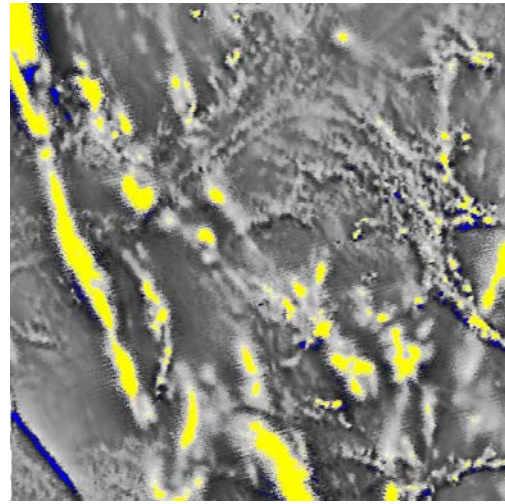
Subject: TargetMap™ – Greenstone belt

BLAIR nickel and gold field, Yilgarn Craton, Western Australia

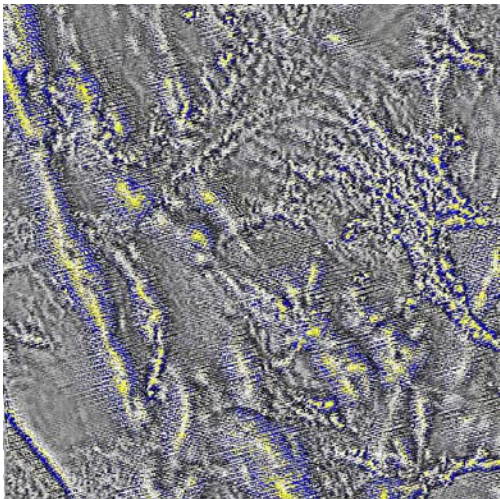
Aeromagnetic survey with survey lines oriented 075-255 degrees and spaced 30 metres apart over an area with strongly magnetic greenstones and extensive maghemite overburden. The area hosts numerous gold and nickel sulphide prospects, including the Blair nickel mine. Area is 6kms x 6kms, north to top of page. See Vector Research Technical Note No. 2 for details of TargetMap™. *Data courtesy of Australian Mines Limited, Australia.*



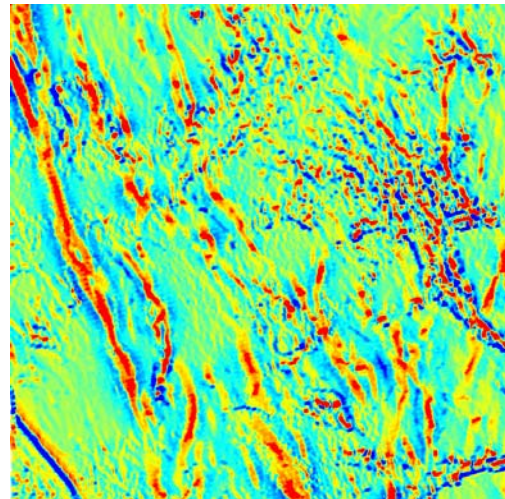
Total Magnetic Intensity (TMI)



First vertical derivative of TMI



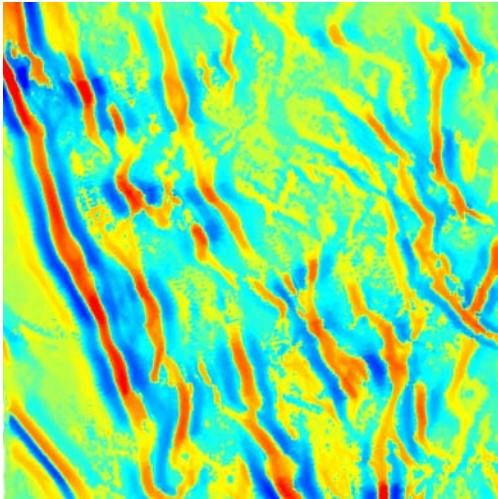
Second vertical derivative of TMI



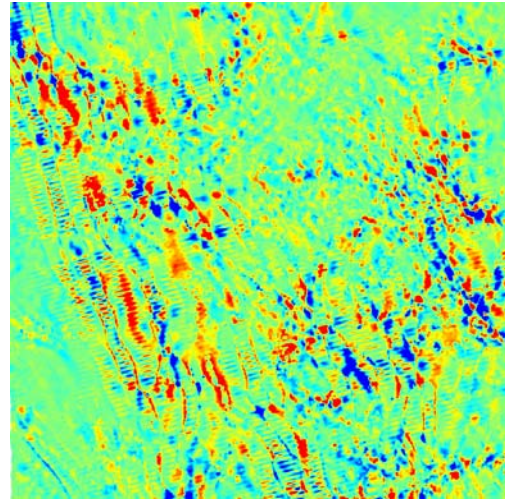
TargetMap™ SHALLOW1 response

BLAIR nickel and gold field, Yilgarn Craton, Western Australia (continued).

Highly magnetic greenstones are prominent, note the ubiquitous maghemite paleo-drainage obscuring both detail and the deeper geology in the TMI and TMI-derivative images. The SHALLOW1 response shows the true magnetic polarity of the surface maghemite and the greenstone stratigraphy in detail.



TargetMap™ LINEAR5 response



TargetMap™ SPOT5 response

The LINEAR5 response shows linear features, most of which are the greenstone stratigraphy, some underlying the maghemite overburden. The SPOT5 response shows variations in the magnetic texture of the LINEAR5 response. Some of the SPOT5 features are associated with nickel sulphide mineralisation. Minor data levelling errors have been resolved as small parallel ripples, mainly confined to the highly magnetic greenstone horizons which dominate the western and southern parts of the survey area.