

NPS Remote Sensing Research (PH)

2010

The Use Of Commercial Remote Sensing In Predicting Helicopter Brownout Conditions

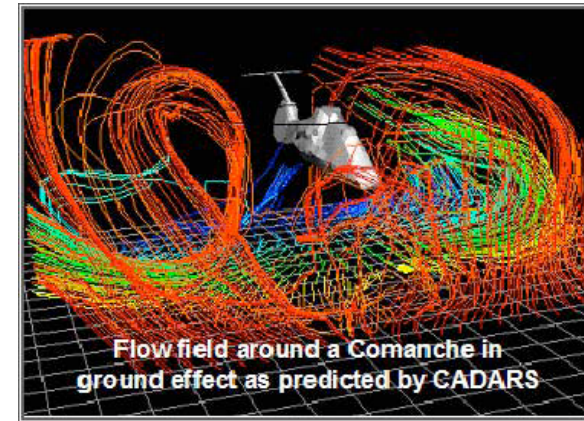
Anthony W Davis Jr

September 2007

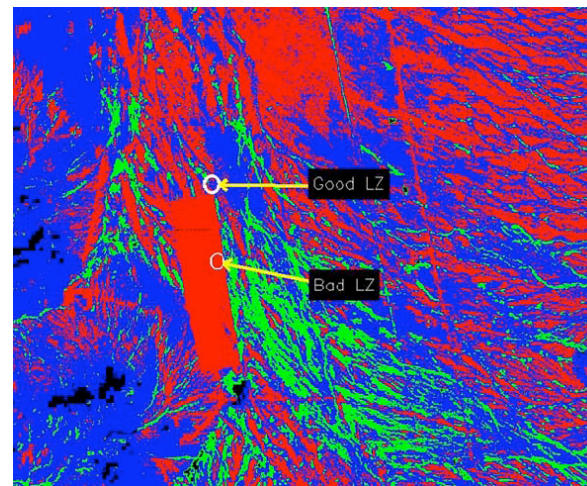
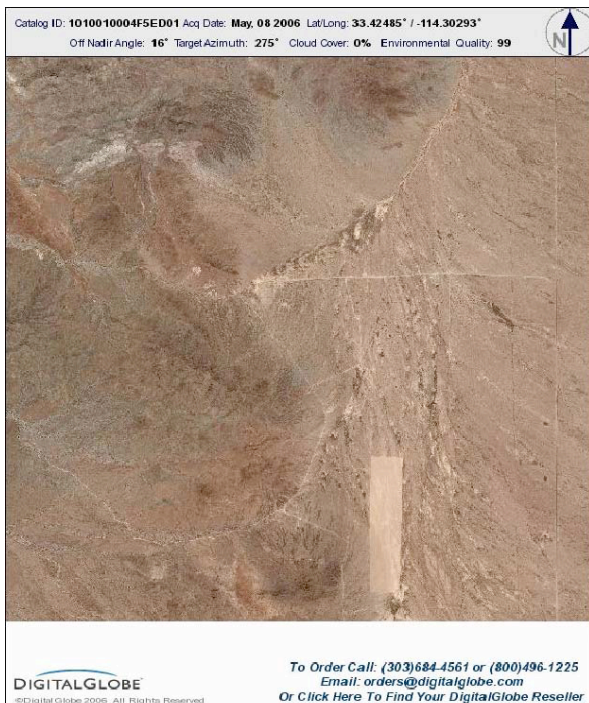
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Observations of potential helicopter landing zones are analyzed to determine suitability with respect to helicopter brownout. Imagery from civil and commercial satellites is used. VNIR and LWIR imagery of Yuma Proving Grounds taken by the ASTER sensor are analyzed.



NDVI calculations from the VNIR data are used to define bare earth and vegetated areas. Some correlation is found in LWIR signatures, but the 60-m GSD for those bands limits utility. QuickBird MSI taken over Iraq is also analyzed for vegetation; results could not be ground truthed.



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