# Big Island´s land vegetation changes

By Andre Marquez, Kristine Tofte and Tommy Winning

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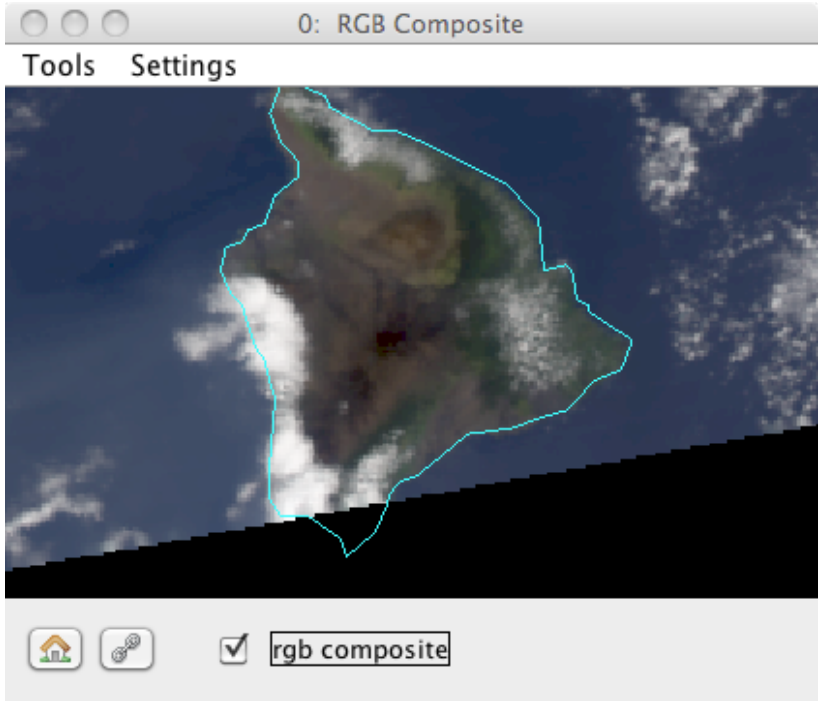
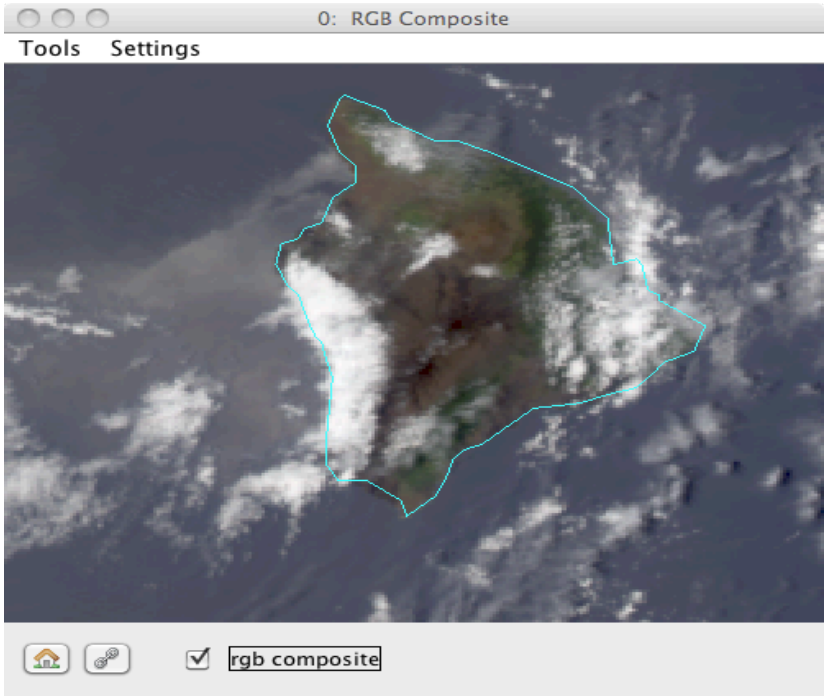
- Vegetation changes between summer and winter

- NDVI differences calculated using MODIS B1 & B2
-RGB using MODIS 1,4,3
-MODIS B1 for visible image

?

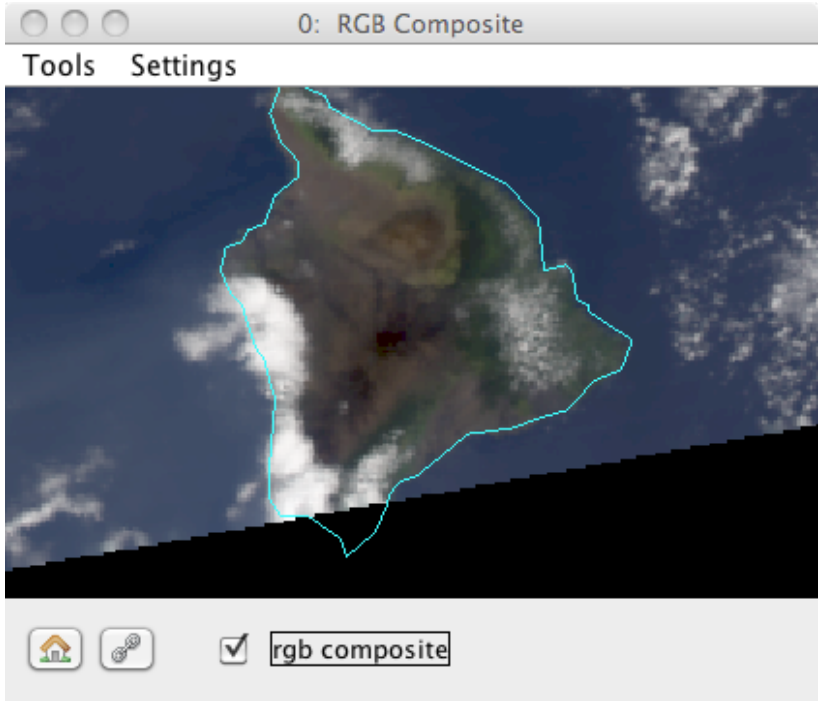
- Become familiar with MODIS for surface analysis purposes

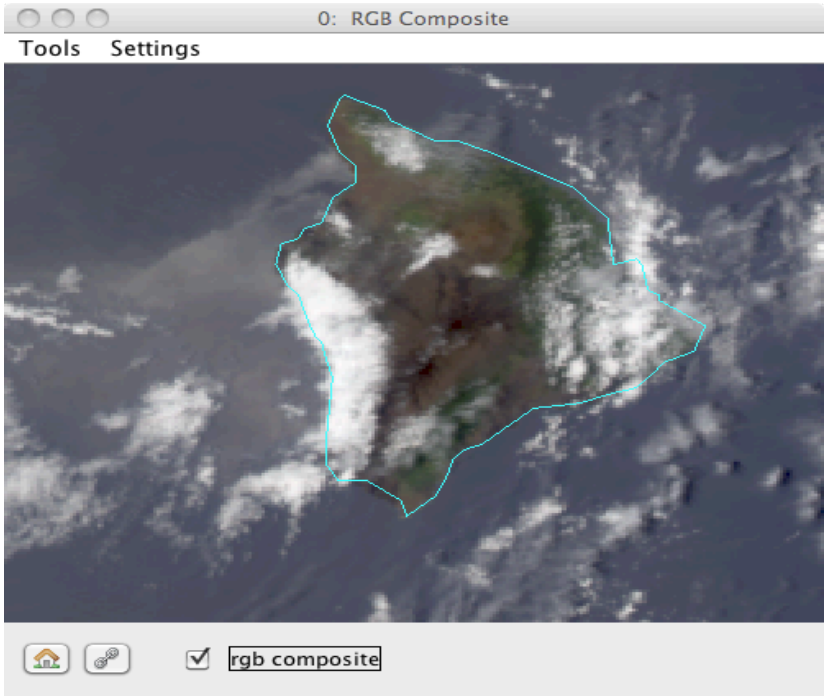



January 22, 2013 – RGB (1,4,3)

July 31, 2013 – RGB (1,4,3)

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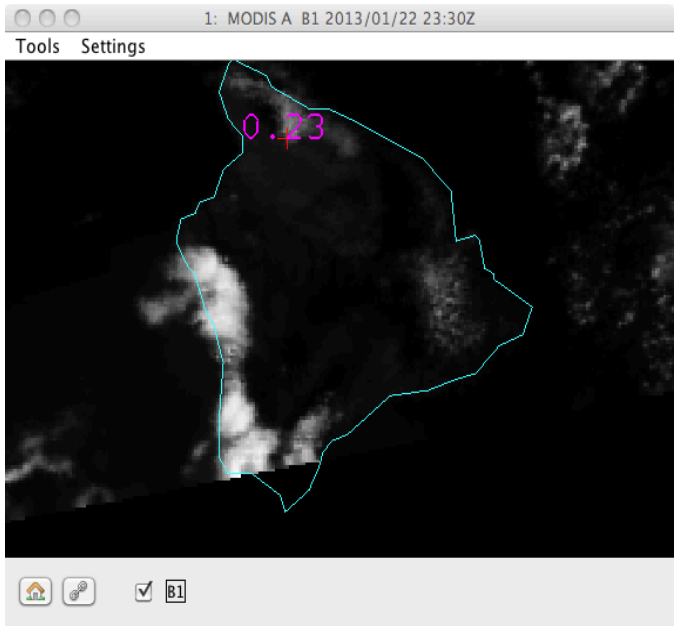
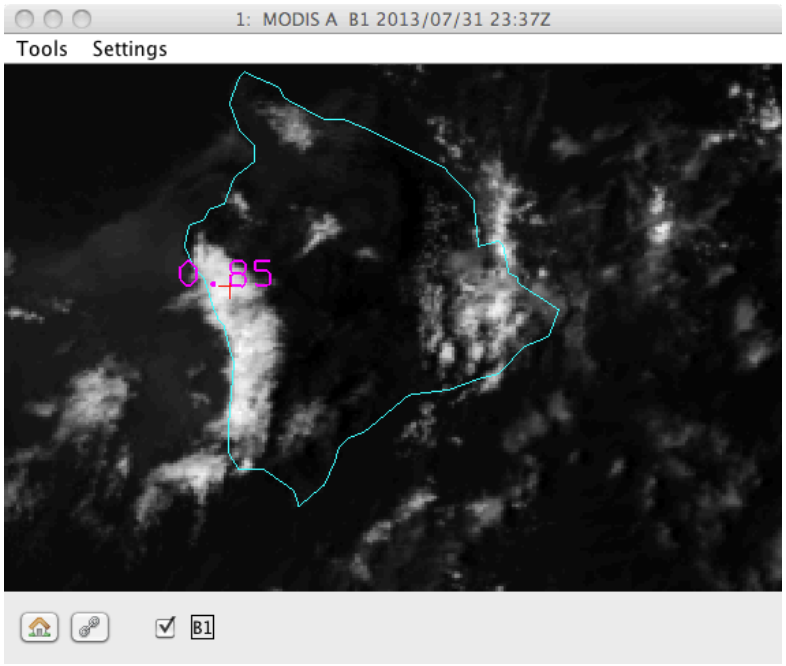
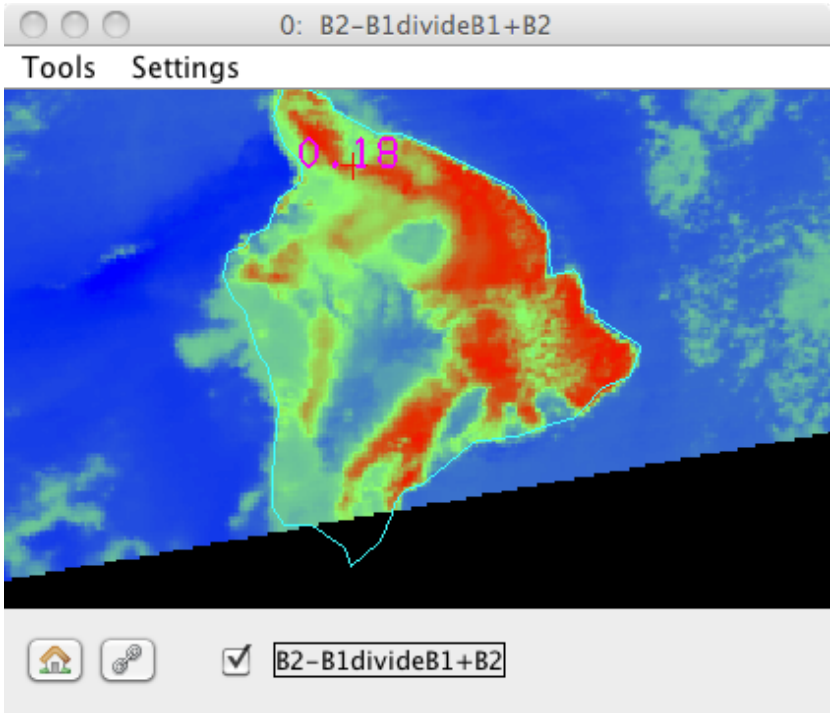
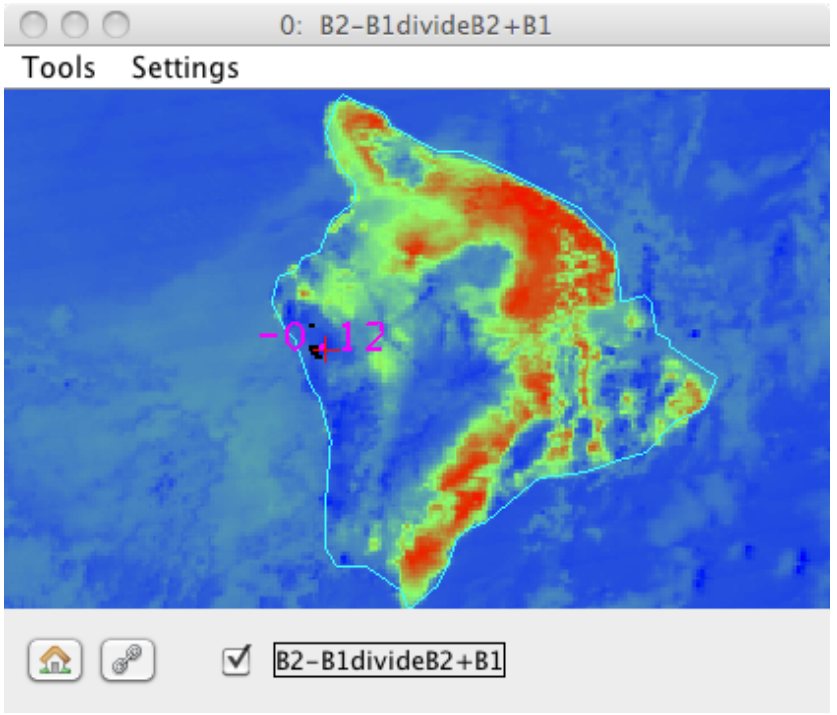



January 22, 2013 – B 1

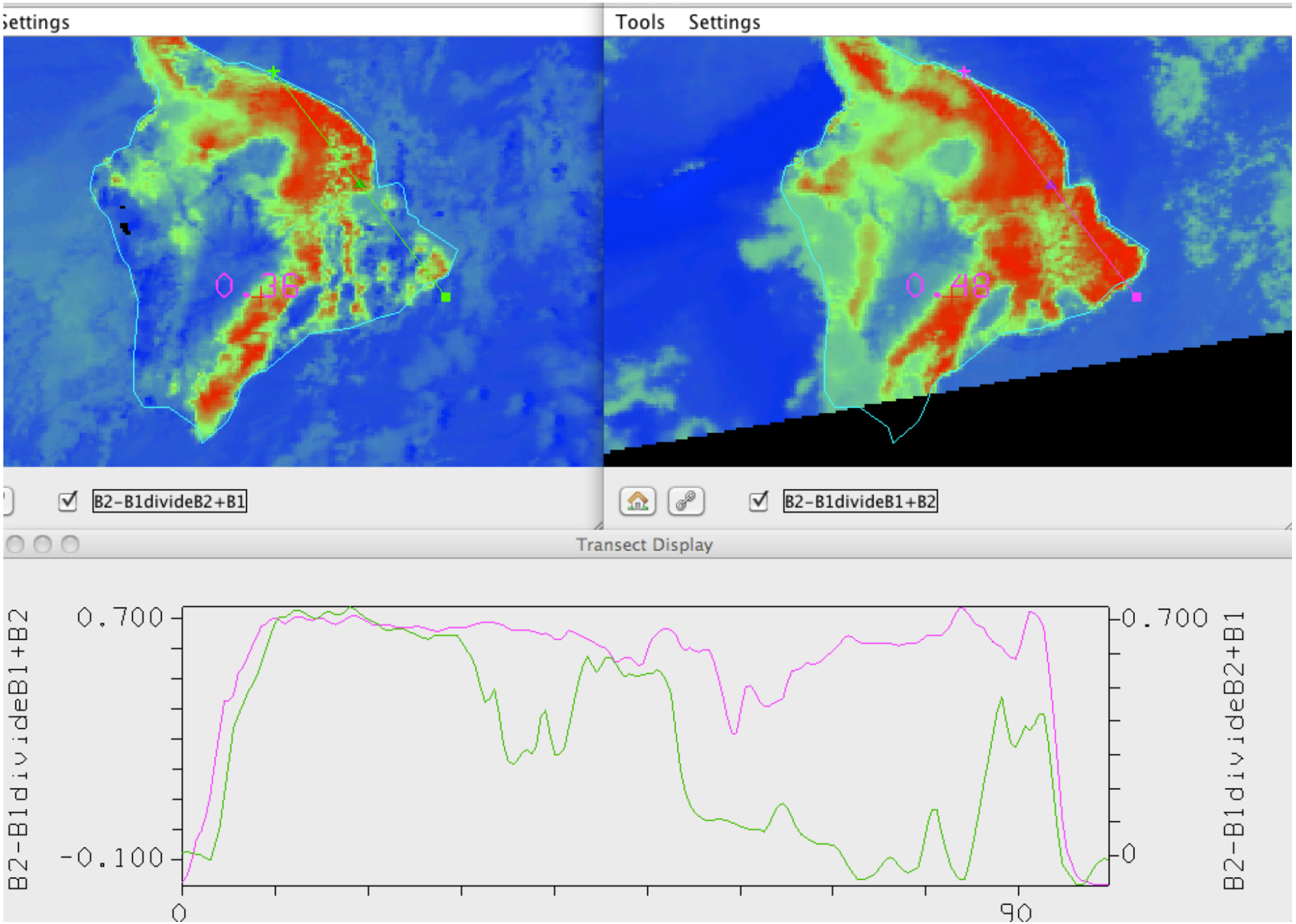
July 31, 2013 – B 1




January 22, 2013 – NDVI (BII – BI)/(BI+ BII)

July 31, 2013 – NDVI (BII – BI)/(BI+ BII)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0.48
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B2-B1divideB1+B2
Transect Display
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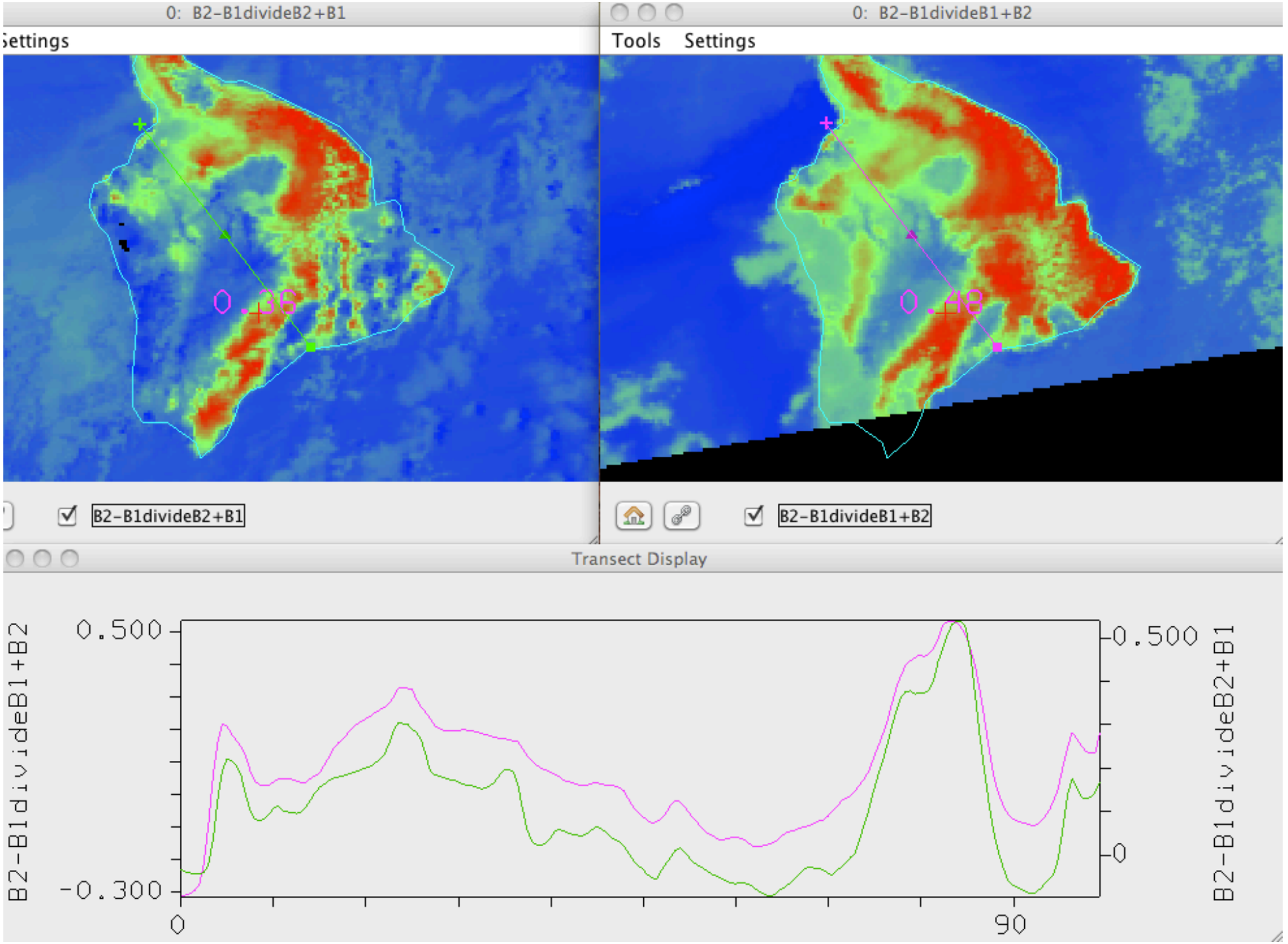
-0.100
B2-B1divideB1+B2
0.700
0
B2-B1divideB2+B1
0
90


0: B2-B1divideB2+B1
Settings
0: B2-B1divideB1+B2
Tools Settings
B2-B1divideB2+B1
B2-B1divideB1+B2
Transect Display
B2-B1divideB1+B2
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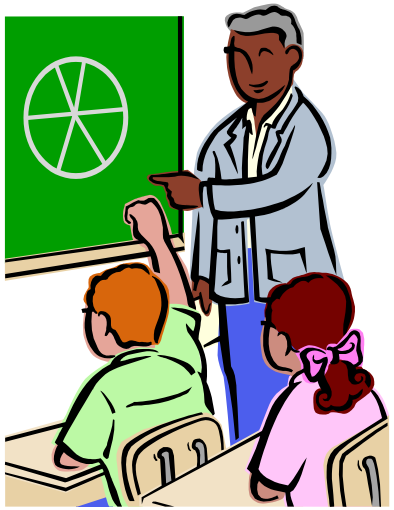
-0.300
0
90
0.500
0
B2-B1divideB2+B1



# NDVI

Bands 1 &2

visible

MODIS

Clouds

affect

Vegetation

RGB (1,4,3)

changes