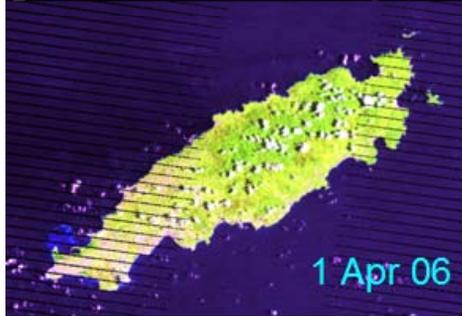
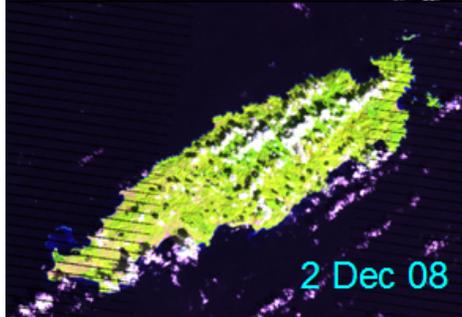


Creating cloud-free Landsat image mosaics for vegetation and land-cover mapping over tropical landscapes – new results with ETM+ SLC-off imagery

Landsat Science Team Meeting
June 20-22, 2009, Rochester, NY
E. H. Helmer, T. S. Ruzycki, K. J. Benner and C. Park



Study Area

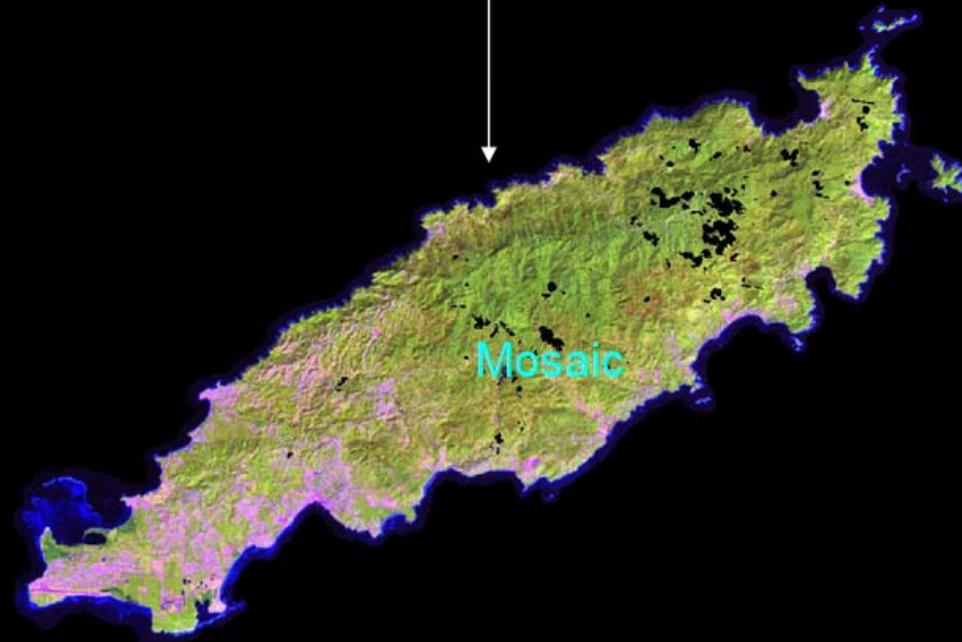


Regression Tree Normalization to Reference Image

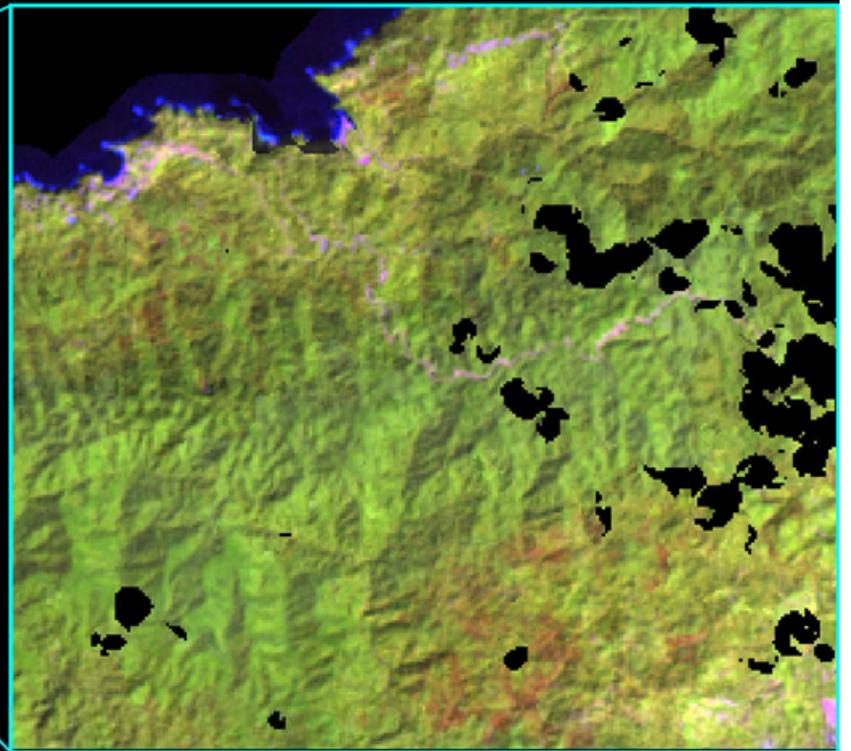
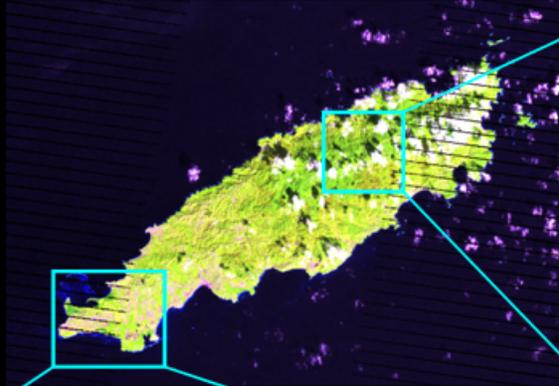
Method of Helmer and Ruefenacht 2005



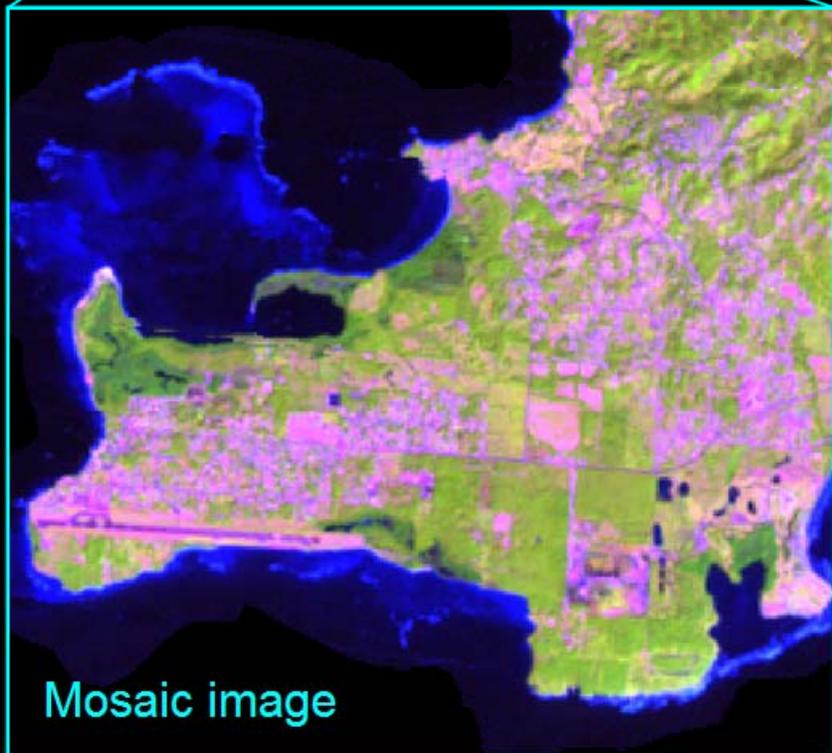
16 Dec 07



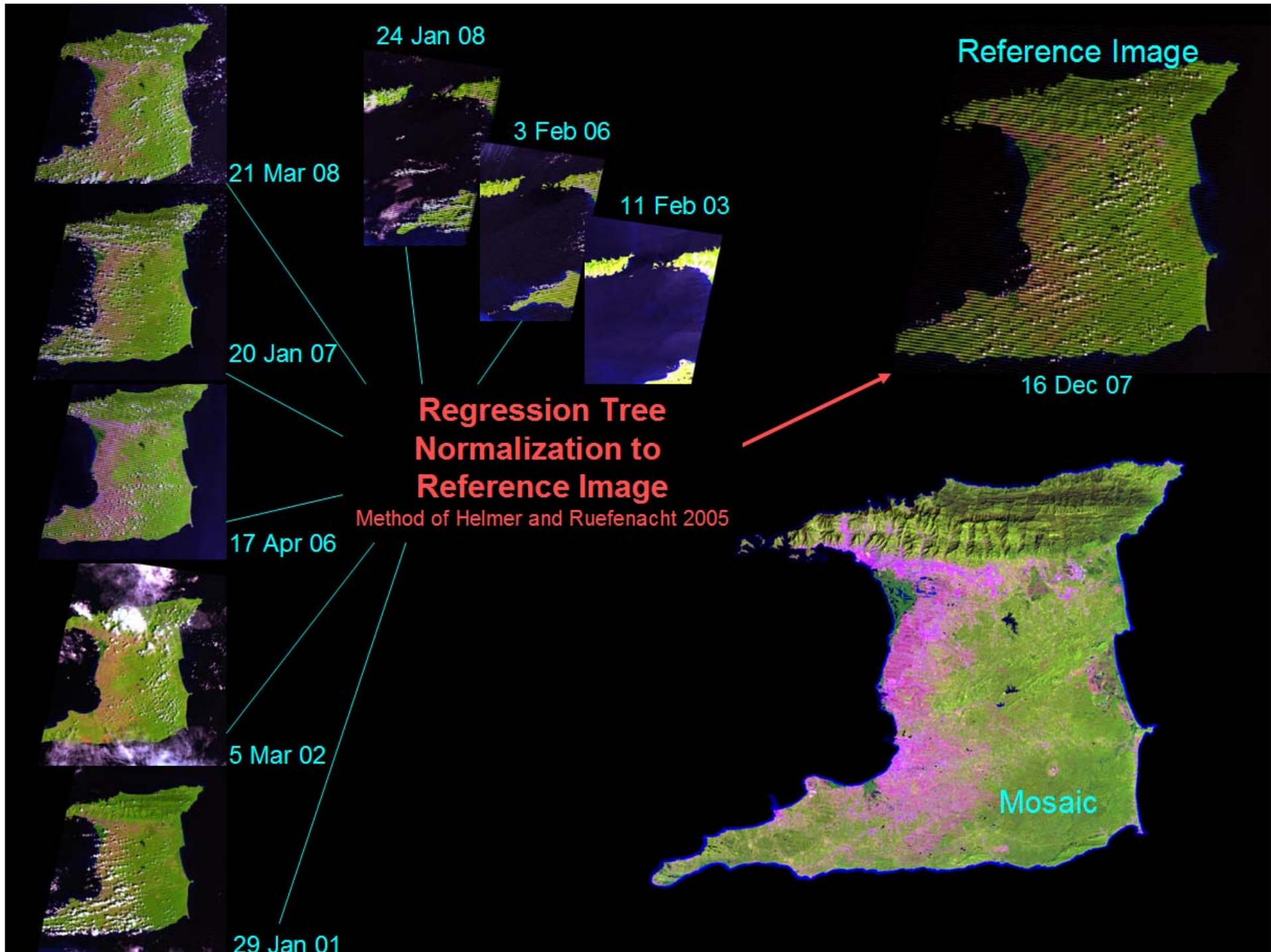
Reference Image

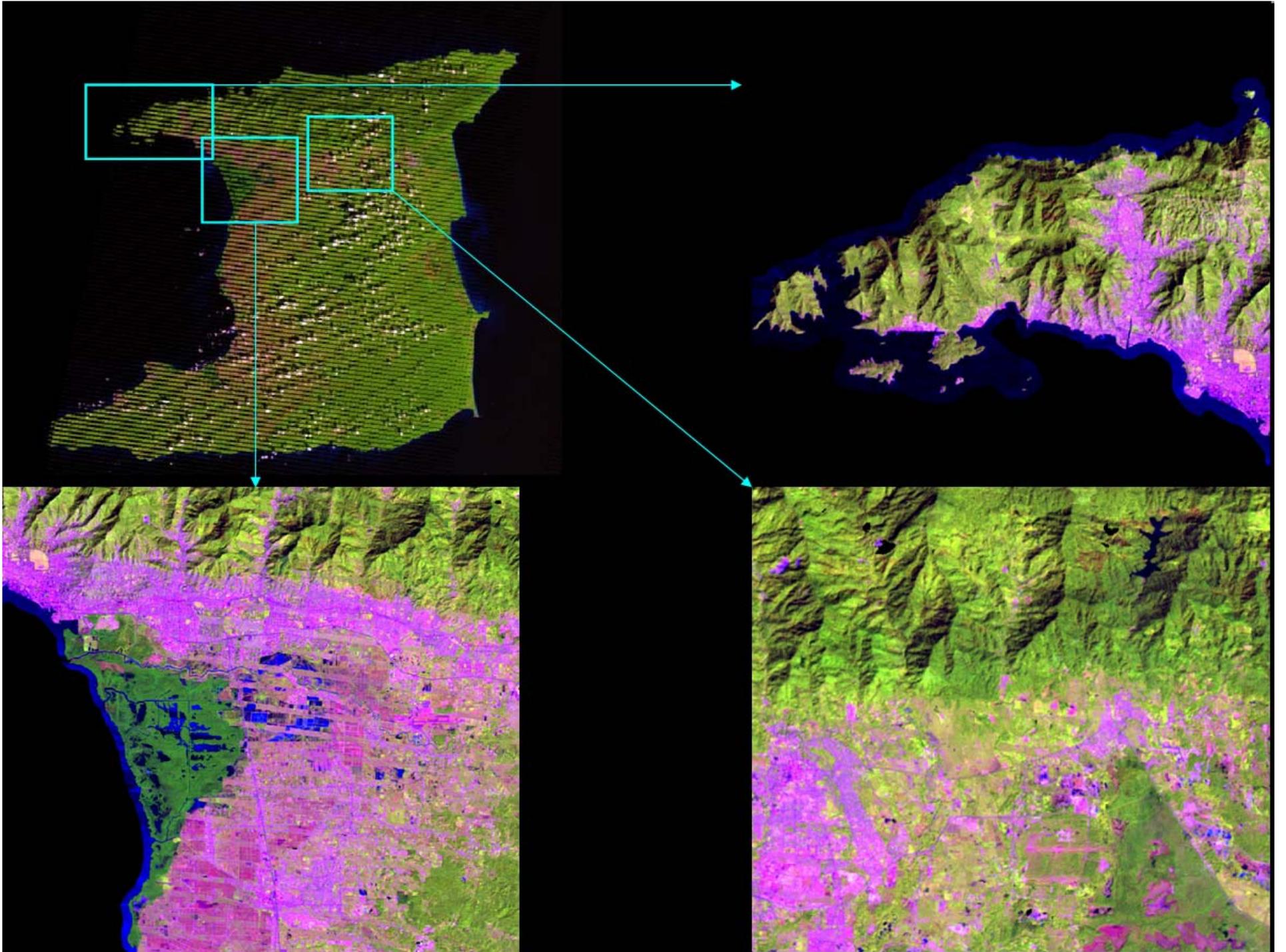


Mosaic image



Mosaic image



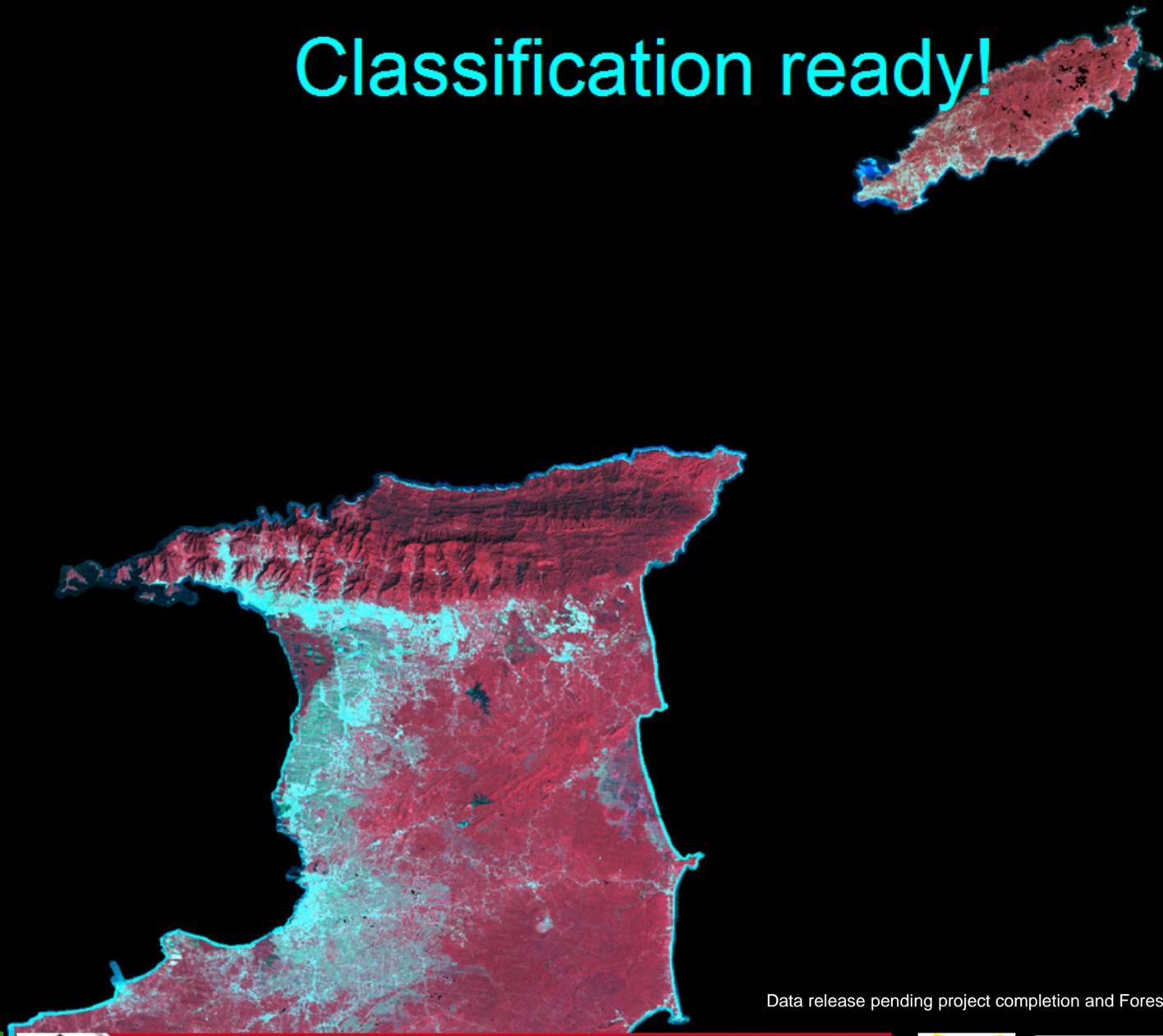


Does regression-tree normalization mask real land-cover change?

Not in our experience...

For a given mosaic time step, scenes with <50% cloud cover have relatively large extents with no land-cover change, and those pixels dominate the regression tree radiometric normalization models

Classification ready!



Data release pending project completion and Forestry Division approval